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ABSTRACT

The 12 teacher's guides, emphasizing career education and its infusion into existing curriculum, are for the following units of instruction and suggested grade levels: the department store, K-2; the airport, K-3; measurement and its relationship to baking, K-3; people behind the scenes at school, K-3; books, 1-3; can I be a scientist?, 3-5; careers in earth science, 3-5; life and work in early America, 4; explorers—an introduction, 4-5; inventors who lead—careers that follow, 4-5; safety and health in school and industry, 4-5; and headlines and deadlines, 4-6. Each unit is organized under several strategies and major aims, subdivided into categories of objectives, concepts, suggested activities, resources, and evaluation procedures. Some units conclude with a bibliography of additional resource materials. Material in the units is intended to be flexible and easily adapted to the interests and needs of pupils in the class. (Author/NH)

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CAREER EDUCATION TEACHER'S GUIDE

Grades K - 2

DEPARTMENT STORE

Copy ight: Board of Cooperative Educational Services Rockland County, New York 1974

Rockland County Career Education Program Dr. Laurence Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

Particular mention should be made of those teachers who originally developed the premise for this Guide.

Ruth Berlin - East Ramapo Janice Goldfarb - Pearl River Joseph Malgieri - Clarkstown



INTRODUCTION

In studying the community helpers curriculum, we have realized that the department store and its associated career cluster is overlooked. Since children from an early age, are brought to the department store, we felt it necessary to familiarize primary children with people and their jobs in this setting. We, as teachers, realize the great amount and variety of materials which are currently part of the community helpers curriculum. However, it is our intent that this Department Store unit can be infused into that course of study.

In writing the objectives for this K-2 unit, we focused on the Career Education elements of Self-Awareness, Career Awareness, Economic Awareness, Appreciations and Attitudes, Decision-Making Skills, Skill Awareness and Beginning Competence, and Educational Awareness. Very simply, this means that the primary child is introduced, through the use of these materials, to the world of work and its implications for personal growth and self-understanding.

The unit is written so that the teacher may use his/her own creativity and discretion in using the material. We emphasize that it is a flexible unit and the teacher may pick, choose, add or alter the material so that it meets the needs of the individuals in a particular group.

In addition to the references included on each strategy sheet there is a general bibliography at the end of the unit. This bibliography includes references for both the student and background information for the teacher as well. We would like you to particularly note that the book Behind the Scenes in the Department Store, by Leon Harris is an excellent reference guide for this unit and is available at local libraries and through Dr. Aronstein's office. At the end of your guide you will also find a list of jobs which are part of the Department Store cluster which may prove helpful to you. Finally, we hope you have as much fun sharing this material with your class as we had writing it.



STRATEGY NUMBER | CRNDE/SUBJECT K-2 Interdisciplinary

NAME OF UNIT_ Department Store

MAJOR AIM_ The child will learn that people do differnt jobs in a department store.

Teaching Tapes, Inc. Group 1. Office and Sal 1972	Local display	٠L	at least ten department store
Teaching Tapes, Inc.	They will then Illustrate at least	partment store jobs.	
•	able to list	Following this, the	EVALUATION PROCEDURE:
Work International			
Career Education A Man'			
D.C. 1972-73			
Statistics, Washington			
Handbook. U.S. Dept.			
Occupational Outlook			
Chicago, 19/1			
Ferguson Publishing Co.			
& Wolfsen			
Occupations. Costello			
Concise Handbook of			
3 M Press			
		store.	
	emphasis on the people involved and cherry	of a department	
	from a department store and trace its origin with	the operation	
Sed Tem SFIMO Center	(2) Have children bring in a newly purchased item	jobs involved in	J08%.
Chicago, III. 6061	available through Dr. Aronstein's office.)	there are various	ten department store
Visu	as many department store jobs as possible.	tor children to	
1	ment store and its workers to the cross and	It is important	
	TWILL SHOW DICTURES OF THE		
depart- Filmstrip	ill about pictures of the	CONCERT	OBJECTIVE
RESO JRCE	SII		*
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STRATEGY NUMBER_

GRADE/SUBJECT K-2 Interdisciplinary

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NAME OF UNIT MAJOR AIM The child will learn that people do differentjobs in a department store.

Department Store

EVALUATION PROCEDURE:	The student will be able to choose and compare two jobs involved in the operation of a department store.	
Prepare a ditto for mate (eg. cashier-takes money custodian-cleans store, this may be done orally.	CONCEPT: It is important for the children to recognize that there are different (a) skills (b) opportunities (c) expectations (d) life styles (e) preparations involved in the different jobs of a department store.	
hing job characteristics and function to lob Ellle stock clerk-keeps supply up, sales person-shows m window designer-sets up window displays, etc.) At	Suggested Activity) Make a school survey which will elicit to formation about which parents (or guardian blings) work for a department store. As a dition to this, a bar graph may be made by ildren to show job distribution.) Invite these people to speak to the chine various aspects of their jobs. (eg. eded, job opportunity, job expectations, lyles, training and preparation.) Visit a department store and observe so the function of the store directory and obtain a copy.	* * * * * * * * * * * * * * *
merchandise, kindergarten level,	People Who Make a Department Store. Leon Harris, Lipponcott, 1971 Department Store resource people A local department store store	* * * * *

NAME OF UNIT_ MAJOR AIM necessary for the perfic skills are sometimes to recognize that speciskills necessary in the associate a job with the Child will be able to formance of specific jobs * performance of that job. in the department store. EVALUATION PROCEDURE: Have the children play the "I am a" game The child will be able * OBJECTIVE Department Store Different jobs require different training and/or background ; * explains the specifics of being a shoe salesman. * jobs, a person eg. pet department may need to understand that for the children It is important special training form specific clerical worker maintenance worker window designer In order to per-* plant appliance " shoe * CONCEPT **冷** = STRATEGY NUMBER * * (2) Using the background information gained from strategy #II have the children choose one of the then discuss the different skills needed to do jobs to the rest of the class. The teacher can story about the chosen job. (The survey and builetin board jobs and either write or tell a facts back to the department store workers. these jobs well. The teacher then relates these interviews obtained by the children.) (1) Ask the classroom helpers to describe their بڊ * GRADE/SUBJECT * SUGGESTED ACTIVITY (eg. "I am a shoe salesman Interdisciplinary 'n. * * * People Who Make Up a Department Store Leon Harris, Lipponcott, People previously Let's Write a Story BOCES Film Library Made Spinning Tops BOCES Film Library Why People Have Special
Jobs - The Man Who ; Classroom teacher RESOURCE The child then interviewed * * *

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NAME OF UNIT_

MAJOR AIM_

To show that classification and alphabetization are important in the use of a department store directory. Department Store GR.: DE / SUB JECT K-2 Interdisciplinary ...

EVALUATION PROCEDURE: I	mcrchandise found in a department store.	departments. (b) The child will al- so be able to alpha- betize the picture representations of	(a) The child will be able to classify and cat agorize goods found in a department store by	** * * * * * * * * * * * * * * * * * *
he children may planformation person was specific item may		gorize.	It is important for a child to be able to alpha- betize and cata-	CONCEPT *
The children may play "The Directory Game" Children will take turns being the information person while the other children come and ask in what department a specific item may be found. The information person must then guide them to it.	(4) Now that these pictures have been named and catagorized, the children will then arrange them in alphabetical order. This may be done orally or written. Teacher may then make a larger directory of the room incorporating all the items brought in.	As an individual activity, for reinforcement of this skill, the child can use teacher prepared pictures and sorting boxes.	(1) Using the pictures broughtin by the students they will then group them according to catagories found in a department store. (eg. men's clothes, toys, tools.)	* * * * * * * * * * * * * * * * * * *
the to it.	9	nater and .	Language Arts Skill Books Teacher prepared	* * * * * * RESOURCE

NAME OF UNIT

Department Store

GRADE/SUBJECT K-2 Interdisciplinary

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MAJOR AIM * money to the purchasing of merchandise in a to relate the use of The child will be able department store. EVALUATION PROCEDURE: * GBJECTIVE ; * To show the reaction of money to purchasing power * : Throw all object illustrations into a box or bag and have each child have that illustration. choosing an illustration. between goods and understand the relationship for the child to It is important * ፦ CONCEPT 泽 * or article of clothing which includes the price. advertisement which illustrates a desired object pricing and comparative shopping. of the buying process. People and jobs may be store. with the amount of goods sold. Discussion of jobs the child will count out the amount needed for his (3) Using play money, that the class has made, from cheapest to most expensive. Discuss money values (1) Each child will bring in a newspaper or magazine salesperson, credit manager, customer service. the need to return an item bought in a department (payroll, cashier, credit manager) should follow. (4) Money collected for items should coincide individual picture. (2) Arrange the articles according to price, ranging (5) As an added activity, children may role-play involved with this process in a department store * * They will then count out the play money needed to purchase (Exchange of merchandise for money; reversal y, ÷ SUGGESTED ACTIVITY * * * * ;; * * משיל ה ;; Newspaper Counting My Money Using Money Series #1 ary math books Money units in prim-Wasp Filmstrip Publishing Co. Pheonix, N.Y. 13135 #00777 BOCES Magazines risherman who Needed John D. Wool, #00777 BOCES SEIMC Frank E. Richards a New Knife RESOURCE بڊ 'n Film Library :: Film Libr BOCES ×,

STRATEGY NUMBER

NAME OF UNIT

Department Store

CN.DE/SUBJECT

V-2 interdisciplinary

MAJOR AIM * what motivated him/her to choose his/her job to relate and discuss The child will be able role playing situation. in the small group EVALUATION PROCEDURE: χ. OBJECTIVE * * The child will develop a good self-awareness ;ķ * will then write or tell (depending on level) why they felt happy or sad as they played The teacher will distribute a ditto which will show a blank face. fill in to indicate what their feelings were as they role played. their roles. vates him/her. plore what motifeelings and exunderstand his/her for the child to It is important ×. ;; CONCEPT ; * ;÷ would like to role-play. (cg. customer-sales relation "why" of children's choices and how the child felt executive-employee relation--job distribution.) about himself as he role-played. Discussion should follow which would elicit the decide and choose a department store job that they (1) Children divide into small groups and discuss, ;; * * × SUGGESTED ACTIVITY <u>ئ</u>زد * * **;**; ų, * ٠, The children The children will * * Game-Helping Hands, Play By Colors Progressive Playthi Games. and Self Awareness Game-Career Insights RESOURCE * Munson, Gock ley ;; 36

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NAME OF UNIT Department Store

GNADE/SUB JECT K-2 Interdisciplinary

simulation of a departprevious knowledge, a MAJOR AIM ment store. to produce, using all The children will be able ... ::-EVALUATION PROCEDURE: × OBJECTIVE Culminating Activity: * ;-* * Run the department store for the other children on grade level, etc. The play mone from the previous lessons may be used. Department store simulation should include restaurant, credit department and cus omer service, maintenance worker specialists and as many other {see-attached list at back of unit; organization, and There are many department store. running of a the planning, people involved in × ;; CONCEPT to run their own department store. * * * to other students. why they picked the job they did. custodian, advertising, restaurant worker, (cashier, store. (eg. security guard, salesperson, cashier, (3) They will catagorize their goods and set up their departments with pricing of merchandise. attractive should precede this with a contest to Discussion of goods display and what makes them Discussion should attempt to elicit from the children See list at back of unit for other jobs. hostess, first cook, waitress/waiter) etc. like to assume in the functioning of a department tol low. concepts./ * (4) They will then choose the role which they would The children will make merchandise for selling (2) The children will then advertise their goods. * (a) foods and baked goods (b) games and toys (d) where it is not feasible to make an item, Jobs that can possibly be put into that department store. * clothing articles from felt or paper a picture of the item. (f) flowers water calar, clay finger paintings. paper or grown (g) art works-original the child might bring it from home or use * SUGGESTED ACTIVITY ×. Some suggested items are: ېږ ; × (self-awareness * * * The play money , display * X-RESOURCE * * * 12

Classification of Basic Department Store Positions (Surban Branch Store)

I-Sales

- 1. Salesperson
- 2. Sales expéditer
- 3. Sales manager
- 4. Group manager
- 5. Merchandise manager

II-Alterations

- 1. Dressmaker
- 2. Tailor

III-Payroll

- 1. Cashier-Clericai
- 2. Payroll-Clerical
- 3. Chief Cashier

IV-Customer Service and Credit

1. Customer Service and Credit-Clerical

V-Display

- 1. Display helper
- 2. Display assistant
- 3. Display manager.

VI-Restaurant

- 1. Kitchen utility man -- Diswasher
- 2. Salad -- Sandwich Maker
- 3. Second Cook
- 4. First Cook
- 5. Waitress
- 6. Cashier
- 7. Hostess
- 8. Restaurant manager

VII-Housekeeping

- 1. Porter
- 2. Lead Porter
- 3. Housekeeping supervisor

VIII-Shipping and Receiving

- 1. Stockman
- 2. Checker
- 3. Marker
- 4. Packer--Gift wrapper
- 5. Transfer clerk
- 6. Platform supervisor
- 7. Receiving assistant
- 8. Receiving manager

IX-Store manager's office

- 1. Merchandise control-clerical
- 2. Switchboard operator
- 3. Statistical-clerical
- 4. Store manager's secretary
- 5. Store manager.

X-Personnel

- Record's office-clerical and record's office-clerical
 - , store nurse
- 4. Training manager
- 5. Employment manager
- 6. Personnel manager

Main Store

Buyers

Artists

Cosmetologist

Beautician

Security

Druck driver and delivery men

Advertising

Interior decorator

Public Relations

Fashion Coordinator

Information (Directory)

Photographer

Models

Elevator operator

Services:

- (a) Carpet layers
- (b) Furniture refinishers
- (c) Upholsterers
- (d) Appliance installers



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Other materials may be obtained through department store public relations departments, personnel training departments, or in the book:

Careers in Retailing
Pennsylvania Retailer's Association
234 State Street
Harrisburg, Pennsylvania 17101



CAREER EDUCATION TEACHER'S GUIDE

Grades K - 3

THE AIRPORT

Copyright: Board of Cooperative Educational Services Rockland County, New York 1974

Rockland County Career Education Program Dr. Laurence Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



PREFACE

This meacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

Part cular mention should be made of those teachers who originally developed the premise for this Guida.

Ruth Berlin - East Ramapo Janice Goldfarb - Pearl River Joseph Malgieri - Clarkstown



INTRODUCTION

Welcome to the airport—a vital resource in our community. Over the years, the airport has aroun not only in size, but in services it provides to our community. Therefore, in the study of community workers and/or transportation, the airport plays an important role. It is our intent that in this unit on "Airport" the children will become acquainted with career possibilities and opportunities offered at the airport.

The career education objectives covered in this unit include:

Career awareness
Self-awareness
Appreciations and attitudes
Decision making skills
Skill awareness
Educational awareness

Through the use of these objectives, the child will be exposed to the working world in the community. We feel that a child is never too young to start to find out about himself/herself, and how to become a part of the world outside the classroom. We hope this unit will be a beginning in this direction.

In addition to the references in each strategy, there is a general bibliography at the end of the unit. This bibliography includes references for both the student and background information for the teacher. Also at the end of this guide, we have included a list of airport related jobs. We hope you enjoy "taking off" with this airport unit!



child will learn the function of the airport in our community.

NAME OF UNIT

The

GILLDE/SUBJECT

K - 3 interdisciplinary

MAJOR AIM airport provides. services that a community list and describe the The child will be able * * **OBJECTIVE** ; * * ķ to ;;provides for the the airport services that There are many community. × ::-CONCEPT * ::-* (i) Show children the film "Transportation-A First Film on the Airport" Note: provide information about the following: children. Teacher should ask the resource person to * class brainstorm how the class thinks an airport serves the community. (Ramapo, Westchester, Teeterboro) to speak to the 7) Invite in a resource person from a local airport ņ 9 (a) <u>C</u> (e) range of different airplanes. Prior to the resource person coming to the ::people who function as community helpers services to the community how the airport has changed over the years an airport is a 24 hour facility at the airport. * SUGGESTED ACTIVITY ÷ * ;;-۲. ;-Film: "Transportation a First Film on the RESOURCE BOCES Films Airport" >;-19 *

EVALUATION PROCEDURE: These pictures Have the children draw pictures and write stories depicting how the airport serves the ures and descriptions can then be used for a bulletin board display entitled:

community.

K - 3 interdisciplinary

NAME OF UNIT_ Children should be aware of the many sounds around them at the airport. Airport

CIMITION PROCEDURE: A 3 dimensional representation of	•		describe the sights and sounds found at an airport.	The children will be oble to illustrate and	* * * * * * *		MAJOR AIM Children shoul
3 dimensional repre			and sounds asso- ciated with them.	Airports have unique physical characteristics	* * * * *		d be aware of the man
sentation of the airport should be made as a class project using			noises/sounds that they hear, types of buildings. (2) Children should be encouraged to bring along camera and tape recording equipment.	 A visit to the airport with special emphasis on physical observations such as: terrain, unob- structed areas, runways, types of equipment, 	SUGGES	* * * * * * * * * * * * * * * *	Children should be aware of the many sounds around them at the airport.
ject using		21.	Camera, film, tape recorder	Playschool Airport Game	RESOURCE	* * * * * *	

milk cartons, clay, plaster of paris, pipe cleaners, model planes, etc. If children were able to record the sounds of an airport, a sound guessing game may be played where sounds recorded are played back and children identify what made sound.



STRATEGY NUMBER IV

NAME OF UNIT

Airport

GRADE/SUBJECT_ K - 3 Interdisciplinary

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"		There are a variety of jobs at an airport, all of which are ne
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-	*	fun
	*	necessary for its functioning.
1	*	ning
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RESOUPCE	×	
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ation, the job he/she chose.	lative or friend who may ated job to speak to child-ticular emphasis on how airport team of people. of interest. Special on the fact that all jobs.	RESOUPCE	* * * * * * * * * *
releanly in a simulated airport situation, the job he/she chose.	(1) Invite any parent, relative or friend who may work in an alignet or related job to speak to children about the job with particular emphasis on how the job contributes to the airport team of people. (2) Each child should choose and research a particular airport job which is of interest. Special emphasis should be placed on the fact that all jobs are now open to both sexes.	SI	* * * * * * * * * *
	is important in that it makes a contribution to the general functioning of the airport.		
	to demonstrate an airport related job in a simulated situation.	*	

EVALUATION PROCEDURE: The children will role-play in a simulated airport situation, the Job Ne.

Children may enjoy role-playing steward/stewardess during snack time while the class makes believe (The classroom may be set up as: inside of plane, airport waiting room, control tower, baggage loader.

they are passengers awaiting service.)

GILLOE/SUBJECT K - 3 Interdisciplinary

Map skills are important for children to acquire.

NAME OF UNIT

Airport

EVALUATION PROCEDURE: On a map (continental U.S. or World) have children show with colored yarn the starting point MAJOR AIM_ geographic location on a map. 12.10 to 17.110.to The child will be * OBJECTIVE ; * * * ;-An airplane flies to many geographic iveations. × ;; CONCEPT * * * ation of an airline. (ey. Pan Am Tokyo. On a lower level this may be limited to the Continental U.S.) magazine advertisement showing a specific destin-;; eral concepts like up - down. left-right, near-far, (1) The child will bring in a newspaper and/or have to find specific places. north, longitude, latitude, etc.)
(4) On individual maps, play a game where children and on higher level, more specific, east, west, south fly to a certain destination. (On lower level, gen-(2) Show films. "Using Maps, Measuring Distances" their advertisement. (3) Discuss specific map skills needed by a pilot to the place is the winner. (5) Have children locate the place which is shown on * × * SUGGESTED ACTIVITY "Maps, An Introduction ;; * * The first one to find * ņ. ::-* ; BUCES Maps -Measuring Distances Films: Using Maps RESOURCE);· An Introduc-* * tion 23

the children

and destination for their specific advertisement. that these are not necessarily the routes followed by the airlines. (It should be pointed out Ö

K - 3 Interdisciplinary

MAJOR AIM Map skills are important for children to acquire. NAME OF UNIT

Airport

and a	EVALUATION PROCEDURE: On				geographic location	The child will be	JECTIVE .	۶
10-	n a map (continental U				יייייייייייייייייייייייייייייייייייייי	An airplane flies to many geographic	CONCEPT	* * * * * * *
destination for their specific advertisement. (It should be pointed out to the	dren show with colored yarn the		(3) Discuss specific map skills needed by a pilot to fly to a certain destination. (On lower level, general concepts like up-down. left-right, near-far, and on higher level, more specific, east, west, south, north, longitude, latitude, etc.) (4) On individual maps, play a game where children have to find specific places. The first one to find the place is the winner. (5) Have children locate the place which is shown on their advertisement.	ps,	ation of an airiine. (ey. Pan Am Tokyo. On a lower lower this may be limited to the Continental U.S.)	(1) The child will bring in a newspaper and/or	SUGGESTED ACTIVITY	1941
	starting point	·	23	tion	Maps - An Introduc-	Films: Using Kaps Measuring Distances	BOCES	1 1

that these are not necessarily the rouces followed by the airlines.

ERIC

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STRATEGY NUMBER

K - 3 Interdisciplinary

*

NAME OF UNIT MAJOR AIM metric) tools. (English and/or orto to tomomotive to linear measurement their ability to use * The children will be EVALUATION PROCEDURE: ;;-OBJECTIVE Airport The ability to use linear measurement tools is an essential skill * skills for childrer are important ite related tools Measurement and to learn. The children will take down the yarn from the previous lesson, and using the linear measurement tools, measure and record on a chart the length of their yarn. The char will include the starting and destination points for their particular piece of yarn to length of added activity, children may arrange yarn in so the measurement can be related back to the distances between the points. ;; CONCEPT ; * yarn. * worm" in which the need for measurement is examined. be used.) whenever possible. the school year. Children will measure each other, kdg, big and small may be only units used.) tools by measuring desks, halls, windows, books, yard sticks, meter sticks, etc. Have children handle Book has an accompanying record. to record heights of children at intervals through etc. * (2) Introduce children to measurement tools: rulers (1) Teacher will read the books "The King's Inch-(3) Teacher will make a chart which will be used * Discuss comparative size of objects, (in **%** GIN, DE/SUB JECT * SUGGESTED ACTIVITY * (Chart in bargraph form may y. * ascending or descending order × ŗ. ×, * * "Using a Ruler" "The King's Inchworm".
Hazem and Sonderm How Big is a Foot The chart RESOURCE according As an * CBS Records, 1969 E. Goldberg R. Myller Phonotape Cassette * ;

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STRATEGY NUMBER VII

GRADE/SUBJECT K-3 Interdisciplinary

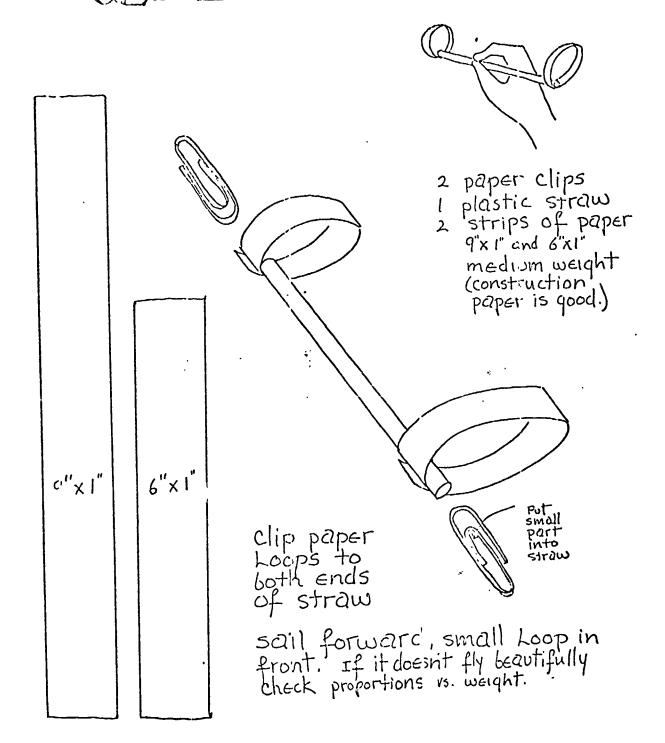
MAJOR AIM_ An airplane is made up of many parts which are essential to its flight. NAME OF UNIT

Airport

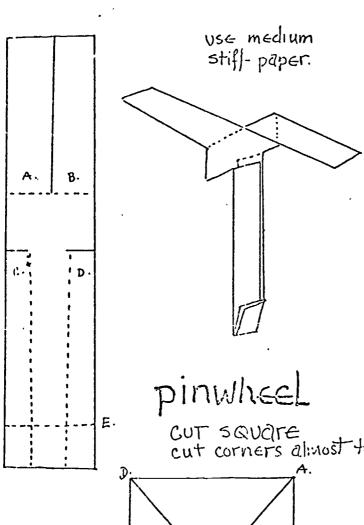
EVALUATION PROCEDURE:	propeller, jet engine, tail, etc.,) and construct a model airplane.	The child will be able to identify the major parts of the airplane (fusilage, wings,	OBJECTIVE
Have children build a model cloth, prepared models, tecomodels. (Enclosed references Note: As an extension of the parts. Also cookies and/or		There are many parts which yo into the making of an airplane.	* * * * * * *
model airplane. This may be done with: paper, balsa wood, tec. Using the principles learned, have the children flarences on a paper glider and spinners can be utilized.) of this activity, a mobile may be made using completed ai and/or bread may be baked in the shape of an airplane.	students. (2) Give children a ditto of an airplane and have them label the major parts. (3) Give children simple aerodynamics lesson to explain how a wing helps a plane fly. (a) Hold a piece of paper against your lower lip so that it curves over the back of hand and is held at the top edge by thumb. Blow only at the curved top of paper and watch it rise. (4) Optional: Have students put together a simple airplane model which can be purchased at a local toy store.	Airplanes: A First Film Airplanes: A First Film Shows certain it should be noted that this film shows certain jobs held by men which are now held by both men and women. This should be pointed out to the	* * * * * * * * * * * * * * * * * * *
yood, scraps of an fly their by airplanes or air-	The Science Distrovery Series Jordan Makower Technifax, Mass. 1969	Airplanes: A First Film BOCES Film Library Farth, Air, Fire and	* * * * * * RESOURCE

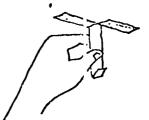


PAPER GLIDERS



PAPER SPINNERS





cut along solid lines Fold A forward

Fold B. backward

Fold C. Forward

Fold d. backward

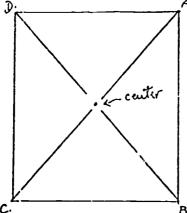
Bend the stem at E. Hold stem upright

drop from high place



nature made the first Spinners.

cut corners almost to center



more wonderful air launchirs can be found in the Great International Paper Hirtians Book . by mander, Dippel and Gossage, simon and schester.

Bend A.B.C.D COTHETS to CENTET

push a pin through a cardobard disk - into the 4 corners É into center ¿ into Eraser of pencil.



STRATEGY NUMBER VIII
GRADE/SUBJECT

K - 3 Interdisciplinary

MAJOR AIM It takes many people to provide services for an air flight.

NAME OF UNIT Airport

COLICEPT COLICEPT COLICEPT SUBGESTED ACTIVITY RESOURCE (1) Class will brainstom an Imaginary airplane trip. Points of emphasis should be the Jobs people do to arpedity, this trip; the sequence of these activities, the essential linkage of these jobs. (2) The children should then divide into small groups and write about, and/or draw pictures of the people and the jobs brainstormed. (Each group should describe different jobs and the teacher should be certain that the full range of jobs are covered.) (3) A creative writing experience dealing with what each child might find at his/her imaginary destination. (ass roller movie will be made which uses the children's drawing and written class from departure to destination on an imaginary air trip.	EVALUATION PROCEDURE: A	The child will be able to trose the records their occupational roles from departure to destination on an imaginary air trip.	1 VF	;
TED ACTIVITY RESOURCE TED ACTIVITY RESOURCE TED ACTIVITY RESOURCE TOTAL ACTIVITY RESOURCE RESOURCE	1 -10	Many people and different johs are necessary in air travel.	COLLCEPT	*
	1 410 1	es ip	SUGGESTED ACTIVITY RESOURCE	* * * * * * * * * * * * * * * * * * * *

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ERIC **
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For assistance with an project related to maps contact: Rockland County Planning Board

County Office Building New Hempstead Road New City, N.Y.

Phone 638-0500 (914)

A valuable resource for any work involved with maps and/or land use in Rockland The office staff is most helpful providing information about Rockland County mapping. Copies are available but expensive. Can be used in the office. Contact: Mr. A. Askerberg, Mr. N. Shute



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CAREER EDUCATION TEACHER'S GUIDE

Grades K = 3

MEASUREMENT AND ITS RELATIONSHIP TO BAKING

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> Rockland County Career Education Frogram Dr. Laurence W. Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



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PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

Particular mention should be made of those teachers who originally developed the premise for this Guide.

Sheila Abrams - East Ramapo Elvira Darmiento - Nyack Nickolas Kelepis - Nanuet



INTRODUCTION

Few topics in elementary mathematics offer as many opportunities to use motivational material as does the area of measurement. It also affords an excellent opportunity to infuse many career roles into the every day curriculum. This is the aim of "Measurement and its Relationship to Baking" career guide.

Each strategy in this guide places emphasis on an occupational role which involves measurements with one or more hands on activities for the student to become involved in. The goals of the guide are to increase the child's understanding of himself, his decision-making skills, the importance of measurement in his every day world as well as the better understanding of his eventual role in the world of work.



<u>۲</u>-3

STRATEGY NUMBER 1

EVALUATION PROCEDORE:						(liquid) measurement: begins, pint, quart and gallon.	The pupils will be able to differentiate among the four units of volume	OBJECTIVE S S S S	MAJOR AIM To help pupils
fills of their container will fill task to verify their answer.		,			4 quarts 8 pints 16 half-pints	made	The gallon is the basic unit of measure of volume.	CONCEPT *	help pupils develop an understanding of liquid measures
an empty gallo	pint or quart container.		Teacher reads story, The King's inchworm to class. Discuss with punils idea of a basic measure.	(3) Pool builder is invited to visit classroom to demon- strate using pictures, slides, or small public pools, the relationship between size of pool and number of gallons it can hold.		(2) (2) Class activity to fill fish tank using milk con-	Brainstorm with pupils to discover what substances and things come in gallon containers, (eg. gasoline milk, ice-cream, paint, orange juice.) List them are blackboard and discuss.	* * * * * * * * * * * * * * * * * * *	in their every day life.
his	ow many			The King's Inchworm Book and 45 r.p.m. Record. C.B.S. Reco: 1969. A Little Library Book.	34		Cup) Pint) Measuring Quart) equipment Gallon)	OURCE	

NAME OF UNIT Measurement and its Relationship to Baking GN, DE/SUBJECT K-3

MAJOR AIM_ To help pupils use liquid measures (cups, pints, quarts, gallons)

	the ingredients to their corporated activity have		EVALUATION PROCEDURE:
	(3) Class trip to Strawtown Dairy to observe how milk is measured for each size container (optional). (4) Using a simple recipe calling for liquid measurement, have students work in small groups and ready the interpretable for their recipe.		
Class mothers Strawtown Dairies (New City, N.Y.)	(2) Invite mothers to class to make jello with pupils as her helpers. Pupils use ½ pint, pint and quart containers as units of measure.		
Containers, milk supplied by teacher and pupils 1/2 pint pint quart	Each pupil uses his ½ pint milk container. Fill milk container with colored water. Pour colored water into a pint container. How many ½ pint containers will fill up a 1 pint container? Pupils do this activity to answer these questions by using their own containers.	Liquids are measured using half pint, pint, and quart containers	The pupils will be able Liquids are meas to measure liquid using using half pint, half-pint, pint and pint, and quart quart containers.
RESOURCE	SUGGESTED ACTIVITY	CONCEPT	OBJECTIVE

NAME OF UNIT Measurement and its Relationship to Baking GRADE/SUBJECT K - 3

MAJOR AIM To help pupils to develop an understanding of measurement and its relationship to the world of work

the haver pertorms			TYPE THOM BROCEDIBE.
	ished items into boxes; writing down of well-		
	Ę		
(ting out cool es, dougnnuts; decolatilly a con		
, (4, -	by hand; mixing batter with an electric mixe		
g dodg:	Tasks: putting ingredients in a mixer; mixing dough		
a	9		
	the task being performed.		
-	other children will watch his actions and try to		
	out one task he believes a baker performs.		
	(I)		
	Cerning bases o worze		
T1	haker ine interv		
	for the interviewer, while diochler cars con-		
the Spring Valley, N.Y.	viewed on television. Une Child manipulates		
	as a baker, and pretending the baker is being		
ppet Route 45 near	Children but on a puppet show by dressing a puppet		
ott	OCAL BARCH SHOW	in one cup.	
	haker visit classro	inere are a concess	
have 13118 (1373)	Visit ices! bakery to see now indicates, and/or have	5	
Mora		a z pint.	
Publi		A cup is equal to	
	selected		in his job.
ith Jack Frost, Linda Ratiit		solids.	measurements he uses
	used to measure both solids and liquids.	both liquids and	
	Pupils measure a cup of water and a cup of area is	of measure for	
	Each pupil receives two 2 pint paper cups (8 oz.)	The cup is a unit	The pupils will be able
I Workers We Know't			
VERROLE	SUGGESTED ACTIVITY	CONCEPT	OBJEC
BESCHIBES	2	* * * * * * *	* * * * * * * * *
* * * * *			and a baker.

EVALUATION PROCEDURE:_ including measurements necessary to complete these tasks. The student should be able to verbally list or compile a written list of tasks the baker performs

Primary Unit in Volume Measurement STRATEGY NUMBER

NAME OF UNIT

ス ・ 3

GRADE/SUBJECT

negative and positive aspect of a baker's career. to distinguish between some The children will be able MAJOR AIM EVALUATION PROCEDURE: those that make them feel sad. ::-OBJECTIVE To develop the concept that there are economic rewards and personal satisfactions involved in being a baker ٠,٠ ::-7-;-He uses his money for his work. wants and needs. to buy things he muneration is one be able to inter The baker is paid of the rewards for that economic re-The children will People work to satisfy many needs. Have children list tasks that they do at home and school that make them feel happy, and * ::-CONCEPT * * ų. gets to be it. Pupils play a game called 'Riddledee Rye''. One child thinks of something a baker might buy to do Discuss the baker's feelings in different parts of Show pupils picture chart story. baker feels in different economic situations; his work The only clue given is the beginning letter of the item. The child who guesses correctly STOF Y. * given for the jobs you do at home?" Ask the children: "How much money should you be you spend this if it were real?" appropriate amount in play money. * eg.: pay day, buying food for picnic; Elicit from pupils how they think the *,* can't afford a vacation * SUGGESTED ACTIVITY * Ask: "How would Give children * ** * Frost & Ratliff Kit - Level B Programmed Work Awaren Free bakery kit "Workers we Know" p. 34 - 35 RESOURCE Ward Baking Compan **BOCES** * ;; ۲,

NAME OF UNIT Measurement and its Relationship to Work GRADE/SUBJECT K - 3

To help pupils use teaspoon, tablespoon, and cup as units of measure

and cup.	EVALUATION PROCEDURE: The teameasures competently. and evaluation. Team							produce a product.	espoon, and cup to	of teaspoon	should be able to	OBJECTIVE	· · · · · · · · · · · · · · · · · · ·	MAJOR AIM TO HELP PUPILS
	닭		one cup.	Two ½ cups equal	equal ½ cup.	Eight tablespoons		Three teaspoons	volume.	→	Teaspoon is a unit	CONCEPT	* * * * * *	nac recapoon, ranco
	this unit by observing how the pupils work g activity by the pupils may serve as a culmior results of experiments about relationships		confectioner; and may read about and discuss candy making.	out a candy maker is calle	< = = :	ile will r		(2)	elic	n to make a level teaspoon and tablespoon.	(1) The teacher may have the pupils use salt or sand to	טטשמבטובט אניועזיי	ACTIVITY X X X X X	
	nating activity between teaspoon, tablespoon	38	by R. Dahl	Charley and Chocola	Sand	Salt	Spatula Tongue Denressor	Cup	Teaspoon		(see attached sheets)		OURCE	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;

CHOCOLATE MARSHMALLOW CANDY

<u>Ingredients</u>

1 pkg. instant chocolate pudding
1 lb. confectioner's sugar
1 egg white
2 tbs. milk
1/3 c. (softened) margerine or butter (5 1/3 tb.)
1/3 c. marshnallow cream

Utensils

1 mixing spoon, knife, large mixing bowl, measuring tablespoon wax paper, measuring cup

Procedure (12 steps)

- 1. Open instant pudding package, pour into mixing bowl.
- 2. Open confectioner's sugar box. Add 2½ c. sugar to mixing bowl.
- 3. Pour 2 tbs. milk over sugar and pudding mix.
- 4. Separate egg yolk and egg white. Add egg white to mixture. Mix well.
- 5. Add softened margerine or butter to mixture. Mix with a spoon for three minutes.
- 6. Wash hands very well. Dry
- 7. Knead by hand until mixture is like dough.
- 8. Spread wax paper on desk, sprinkle some confectioner's sugar on wax paper. Put dough on top. Flatten dough to $\frac{1}{4}$! thick, and into a square.
- 9. Cut into 5 strips, $l_2^{\frac{1}{2}}$ wide.
- 10. Spread marshmallow cream on 4 strips and pile on top of each other with 5th strip (plair) on top.
- 11. Wrap in wax paper and refrigerate.
- 12. When hardened, remove from refrigerator, slice and eat.



CAREER EDUCATION TEACHER'S GUIDE

Grades K - 3

PEOPLE BEHIND THE SCENES AT SCHOOL

Copyright: Board of Cooperative Educational Services Rockland County, New York 1973, 1974

> Rockland County Career Education Program Dr. Laurence W. Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



IMPORTANT PEOPLE BEHIND THE SCENES AT SCHOOL

INTRODUCTION

۷I

UNITS

t	Telephone
11	Truckers - Food
111	Truckers - Non-Food
IV	Piar.o Tuner
٧	Sanitation Engineer

Maintenance Workers



INTRODUCTION

In writing this unit, "People Behind the Scenes," we hoped to bring "out front" the career areas that make important contributions to our everyday life. In doing this, we have used material that is part of your existing curriculum. However, our emphasis is directed toward Career Education. Since Career Education begins with the individual in his very personal milieu, we have attempted to focus the units on what is familiar to the K-3 youngster.

The objectives for each unit in this Career Education Guide stress the themes of: Self-Awarenes:, Educational Agareness, Career Awareness, Economic Awareness, Decision Making and Employability Skills. Very simply this means that the primary child is introduced, through the use of these materials, to the world of work and its implications for personal growth and self-understanding.

This Career Education Guide has a broad scope of information and activities. Each teacher should feel free to choose from these units, the particular activities and information, which seem appropriate to the needs and interests of her children. Although the units are linked by common themes, they need not necessarily be used sequentially.

There is a bibliography at the end of each unit, with references to the particular book or audio-visual material, included in each strategy, for your convenience. We hope that these units will be a beginning for Career Education in your classroom.



4.3

PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

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Noel DeBoyace Haverstraw-Stony Point LaVerne French Haverstraw-Stony Point Joyce Judson Ramapo Ruth Kissel East Ramapo Bertha Mann Haverstraw-Stony Point Susan McGovern Ramapo Rosalind Shanker East Ramapo Lola Smith Clarkstown Clarkstown

Acknowledgment should also be given to those teachers who rewrote and reinterpreted those Guides into the present form presented here.

Ruth Berlin Eas: Ramapo Nickolas Kelepis Nanuet Ursula Pardo Clarkstown



NAME OF UNIT People Behind the Scenes

Telephone: The child will learn the value of the telephone in our society
Major Aim

observe role playing sit
1) The child will demonstrate at least five ways in which he might use a lephone. The teacher will observe role playing situations to assess child's
1) The child will demonstrate at least five ways in which he might use a
** * * * * * * * * * * * * * * * * * *

אאָאַE OF UNIT People Behind the Scenes Telephone: The child will learn the value of the telephone in our society STRATESY NUMBER GRACE/SUBJECT Primary K-3

	ned methods of	teacher will ask each child to transmit a message using one of the brainstormed methods of	cacher will ask ea	EVALUATION PROCEDURE: The t
	The state of			
		,		
		8) Have sign language for the deaf demonstration.		
		7) Show film on "Collinging cactors" of the sections of mining		
·. }		strate non-oral communication in their Jobs.		
-		representing various fields, might come in and demon-		
•		conductor, train engineer or teacher. Parents		
4		ceman (V		means of communication
16	•	b) Dramatize actual sign language associated everyone		use at least one of these
3		break th		The child will be able to
		out drum messages using their own code. Have friends	ferent times.	
	•	5) Have children develop their own codes and then beat	needs at dif-	intercom.
	9 min (#15, 8)	(Only for students who know Morse Code.)	have met man's	to the state of th
	First Film"	4) Tap out message in Morse code and identify message.	communication	city bictore with this,
	"Communication-A			lar juage; smoke signals;
	Films-BOCES-	3) Role Play: Students will communicate with picture		nunication: oral and sign
		play: Make up c		the following means of com-
	cation No. 5	the teacher and children brainstorm to identity various means of communication.	Man has always	The child will be able to
•		SUBGESTED ACTIVITY	CONCEPT	HBJECTIVE
	RESOURCE	S S S S S S S S S S S S S S S S S S S	»	· · · · · · · · · · · · · · · · · · ·
	* * * * * *			
				(a) Of the second
		The Culto Mili Tegril tile value of the telephone in our society	to Mili learn che	le lephone:

E VALU communication. Then the child will demonstrate how his chosen means of communication (i.e., sign language, drums)

Tarks with the telephone as a means of communication in reference to length of time, quality of composition, type

of transmission instrument, quality of responses and accuracy.

STRATEGY NUMBER

ω

GRALE/SUBJECT_ Primary K-3

NAME OF UNIT -Telephone: To learn how to dial and answer the phone correctly.

People Behind the Scenes

| |*| ajor him_ :-;;• :;-:: ::-

The shild will demonstrate the to use the telephone for what to do in the event of a crank plant call; also the use of "ill" information nu ber.	* * * * * * * * * *	
There are neces- sary skills which must be mastered before the tele- phone may be used properly.	CONCEPT	
When the bell rings, one child picks up the phones. Simulate: a) Wrong number—how to answer without revealing number caller has reached, but politely saying that the number is incorrect, please tell operator. Example: What number are you calling? Sorry, you have the wrong number are you calling? Sorry, you have b) Parent is not available to answer at the moment; get caller's name, number and write message on a piece of the wrong number and write message on a piece of paper. c) Busy signal—Hang up and call again, later. It is not a problem—one child pretends to be operator and takes all the information. e) When phone is answered, politely explain who is called the end of your conversation. f) Don't talk too long. Simulate unnecessarily long conversation. g) Hang up immediately in the event of a crank phone call. Inform parents of the call. h) Role play a situation where telephone number is not a vailable and child must dial 411 for assistance and information. i) Show film "We Learn About the Telephone" to understand usage, history of communication and development of telephone.	SUGGESTED ACTIVITY	ı
Tele-trainer(#1 Kit from Teleph Kit from Teleph Company or to) phones Develop Index of with role-playing script Film: "We Learn About the Telephone office belong sound soun	RESOURCE	, , ,

Ş phone #16)

|*

ying cards

lephone",7 ice(#9) 1 System

EVALUATION PROCEDURE: exacher asks a child to answer the phone and teacher (or other child) acts as person having the wrong number, leaving a message and asks child to write down the message to give to parent. Teacher will observe how the children answer the telephone during the role-playing activities. Child pretends to be operator and other

child pretends he has a problem. Teacher will observe how well child articulates the problem and how well he under-

stands the answer.

0100100	CTDATECV
	NIKRER
	ţ.

alla fecciariige	for evidence of alphabetizing skills and digit reading	observes this process	directory. Teacher o
റ	task of locating a classmate's name and telephone number	Each child has the	EVALUATION PROCEDURE:
48	ame, number and list them in random order ard or desk) without alphabetizing. So into two groups. Ask each group to find a child in the class and let them hunt to the class and let them hunt to the class and let them hunt to the process. The can figure out an easier way to be an if they can figure out an easier way to be and speed up the process. The process and numbers and speed up the process. The process and numbers and speed up the process. The process and numbers and discuss which method proved simpler, asier. It is a vailable for children to a directories available for children to an telephone numbers.	specific skills such as alpha- betizing, accu- rate reading of digits.	efficient way (i.e., aiphabetical order.)
Local Phone Directory) Ask child addresses	rectory requires	
~	eed for alphabetising and c	use of the telephone di-	The child will be able to set up a class telephone directory and he able to
Listing of all	The following activities	ONCEPI	OBJECTIVE
RESOURCE	S X X X X X X X X X X X X X X X X X X X	*	* * * * * * * * * * * *
		how to set up a	ajor AimTelephone: To show
	GRAC?/SUBJE	the Scenes	NAME OF UNIT People Behind

ich E
le Jhe use of the
IVE CONCEPT SUGGESTED ACTIVITY

Telephone: To show how to set up a telephone directory and how to use it properly
NAME OF UNIT People Behind the Scenes STRATEGY NUMBER GRACE/SUBJECT K = 3

တ

STRATEGY NUMBER

Major //im_ EVALUATION PROCEDURE: ÷ NAME OF UNIT People Behind the Scenes parts of the telephone and :: their function. To demonstrate the various **OBJECTIVE** process telephone operation. Telephone: * ::-;;-×. Each child selects a single piece of telephone apparatus and explains its function in the total What makes the telephone work! ::across a medium Sound travels which transmit through wires Sound is carried through vibrations. these vibrations Teacher notes child's knowledge of the specific part and his grasp in the total telephone CONCEPT ÷ ; * ;; * 2a) Children walk from school to road and observe all lc) Show film "Phone Man to children 1b) Children take apart an old telephone; discuss use of Read story (#1) 2b) Teacher will read book, "Your Telephone and How it la) Children will make their own simple telephone. Tie string between two paper cups or orange juice cans. ;; boxes, telephone trucks, etc. Works" to the children. telephone eq ipment as: poles, wires, illocaliacion the mouthpiece, wire, earpiece and the dialing apparatus 01d Telephone * ;; :: SUGGESTED ACTIVITY ;; 6 Contriction of the * ;; ;; * * ; Primary K-3 ۶;٠ :: ::-:: by service man in and/or demonstration Film (#13) Read (#7) classroom. Call Bell Telephone Orange juice cans Paper cups Střing Trip to phone co. : of phone. demonstrate parts RESOURCE for Acpairman +2 ;; :: :: :



to function	Hajor Aim Telephone: Culminating activity. To show that the telephone is a	People Behind the Scenes
	o show that the telephone is a	STRATEGY NUMBER 7
	complex network which relies upon many people	CRAFT./SUBJECT K - 3

•	ures.	e of each one is shown. Children write captions for pictures.	teleph
• 1	ify activities	set of pictures from Telephone Company literature. children will identify activities	EVALUATION PROCEDURE: Using a set of picture
1			
			•
_			
51		•	
			office workers.
		installers and linemen.	tion operator, lineman, re- telephone work. pairman, installers and
	Workers at Telephone Co.	workers who function outside of office as repairmen,	workers: operator, informa a team to make a
	70		
			differentiate among and people with speci-
-	<i>#</i> 14	Take a trin to the telephone company: Observe all the	The attract will be able to it takes many
	RESOURCE	SUGGESTED ACTIVITY	OBJECTIVE CONCEPT
1	* * * * * *	** * * * * * * * * * * * * * * * * * * *	* 公子子子子子子子子 **
1			to function

STRATEGY NUMBER

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GRACE/SUBJECT

K-3

Major Aim Telephone: Culminating activity. NAME OF UNIT People Behind the Scenes To show that the telephone is a complex network which relies upon many

2) Different jobs questions such as: (1) What hours do you work and how require differing does this affect your time spent with your family? (2) Do you work indoors or outdoors? (3) Do you select tion and training your own activities? (4) What training did you need to get your job? (5) Did you learn anything else after you got your job? (6) What do you like best about your job and what do you dislike about your job? (7) What are the opportunities to advance in your present position? (8) Is there a salary range for your job? (8) Have child make a telephone company. Tell why he would choose at the telephone company. Tell why he would choose this job. Then have small groups combine their individual functions into a team effort to demonstrate overall telephone operation. 2C) Have child make a telephone company. Tell why he would conserve the knows at the telephone company. 2C) Have child make a telephone company. 2D) Invite telephone person. Be guided by interview ques-tions used with parent resource person. 2D Javiet Rm. 302, 1422 Chestnut St. 1422 Chestnut	people to function. * * * * * * * * * * * * * * * * * * *	SUGGESTED ACTIVITY Suggested Activity 1) Bulletin board on telephone workers is made from children's drawings of workers at their jobs. 2A) Interview workers from/or at telephone company to	* * * * * * * * * * Bulletin Board
		explain their function there. Class develops interview questions such as: (1) What hours do you work and how does this affect your time spent with your family? (2) Do you work indoors or outdoors? (3) Do you select your own activities? (4) What training did you need to get your job? (5) Did you learn anything else after you got your job? (6) What do you like best about your job and what do you dislike about your job? (7) What are the opportunities to advance in your present position? (8) Is there a salary range for your job? 2B) Have child role-play the specific job he would choose at the telephone company. Tell why he would choose this job. Then have small groups combine their individual functions into a team effort to demonstrate overall telephone operation. 2C) Have child make a telephone tree showing all the workers he knows at the telephone company. 2D) Invite telephone personcl representative to speak to class and fill in any job information not offered by parent resource person. Be guided by interview questions used with parent resource person.	Resource People who work for Telephone Co. Alliance of Independent Tele- phone Unions Rm. 302, 1422 Chestnut St. Philadelphia, Pa 1910 Communication Worker of America 1925 K St., N. W. Washington, D. C. 20006 Int'l Brotherhood of Electrical Worker 1200 15th St., N. W. Washington, D. C.
	a compare of ich function	Class will make a chart listing all telephone occupations discussed, training and skills	ning and skills

awareness of job function. Class will make a chart listing all telephone occupations discussed, training and skills

required for job; and customary hours worked in each shift. Have classroom "debate" on the advantages and dis-

advantages of each of the following: operator, information operator, lineman, repairman, installer and office worker.

Teacher will note children's grasp of occupational advantages and disadvantages associated with each job.

TELEPHONE BIBLIOGRAPHY

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AV MATERIAL

- 9. BOCES Film Understanding Communications, color, 10 min, PE 00637
- 10. Bell System Telephone Offices-We Learn About the Telephone, sound 25½ min.

 Source: Educator's Guide to Free Films
- 11. Kit containing Teacher's Guide and student booklet emphasizing correct usage of the telephone through role-playing. Bell Telephone-Source: Free and Inexpensive Learning Materials
- 12. Communication Knits Our World Together, FS-Eye Gate
- 13. Inventions That Speed Communication, FS-Eve Gate
- 14. Northeastern Area Film Library, AT&T Long Lines Film Phone Man, color 16½ min.
- 15. Rockland County Regional Education Center Extending the Classroom-A Field
 Trip Guide, New York Telephone Co. TEL NO. 694-8226
- 16. BOCES film-Communications-A First Film C 9 min., P-I-00079
- 17. Tiletrainer kit from Bell Telephone



STRATEGY NUMBER

Primary K-3

hajor Aim__Truckers-Food Suppliers: The importance of food suppliers to the school NAME OF UNIT People Behind the Scenes במשרבי/במשטבכד

to school each week. What do they bring and in what quantities?	on paper their own conclusions from doing these	school. Discuss and explain the results of the science experiments	.EVALUATION PROCEDURE: Discuss with children what would happen if	To become aware of the fact that food is delivered daily needed to deliver do the school in large quantities. Children will be able to use of food workers the scientific method to carry out simple experiments fresh food daily. Children will be able to use of food workers is necessary for the delivery of the deliver
nd in what quantities? How is the food ordered?	hese experiments. Make a class log of all food delivery men who	the science experiments done in class. Children will formulate	t would happen if the food could not be delivered daily	The teacher will check with the cafeteria about delivery procedures so the following activities can be implemented: a) Visit the kitchen during a delivery. b) Observe the ice cream man and note of quantity, types or kinds, and the provisions needed to keep it cold, etc. C) Allow fresh bread, lettuce, produce to be exposed to the air in the room. Wrap one piece and let the other remain in the room air. (This would lead to spoilage, molds, etc.) d) Let milk and ice cream to remain at room temperature for two days. Control group used in the kitchen refrigeration.
	ry men who come	formulate	y to our	RESOURCE Kitchen helpers and staff Ice Cream Man Fresh bread, celery, lettuce, carrots, bananas, apples Refrigerator, milk and ice cream

· ;

EVALUATION PROCEDURE: Te	NAME OF UNIT People Behind the Hisjor Air Truckers: Food Supplie Food Supplie The student will recognize that farmers, wholesale food distributors and factory workers are all infood volved in producing and processing the food that the truck driver brings to the school.
Teacher will check	Scenes Scenes Whers. Where was a second with the second was a second with the second with th
flow charts to note child's understanding of sequential	o supplies the food that is on the truck? ** * * * * * * * * * * * * * * * * *
steps involved	RESOURCE ** * * * * * * RESOURCE "How We Get Our Foods" FS-SVE 4 filmstrips: Milk, Bread, Fruits and Vegetables, Meat (#28) F:lm."Story of Wholesals Market" 00036 BOCES (#22) Outline Map of U.S Ditto with picture of 5 workers farmer, wholesale distributor, fact worker and truck driver



:;-

Major Aim EVALUATION PROCEDURE: mailman. describe the job of the The child will be able to * demonstrate proper format the postal team. functions as they operate list the postal workers' procedures. The child will be able to ter writing skills and will The child will practice letin letters and addressing NAME OF UNIT ;; OBJECTIVE × Worker Truckers--Non-Food etter's trip from initial writing process × in the People Behind the Scenes :: * letter's trip. :: Teacher will check written : of duties in his which are behind job, many of forms a variety The mailman per-;;postal workers the scenes. functioning as and envelope. friendly letter rect form for th There is a corteam to get a The letter processed t takes many CONCEPT importance of ÷ He will :: mail being processed. Class brings with them a piece of mail to be posted and processed. Class observes process; and postal workers performing their interdependent duties.

dependent duties.

2) Class will observe and question mailman as he delivers and picks up the mail from school. Sample questions: What do you have in your bag? How did you get to our school? Where are you going from here?

3) Class scts up and organizes its own postal scryice. Use orange clates, cardboard boxes, bags, etc. Callidate the mailman and perform his ::-STRATEGY NUMBER then mail :delivery men. 5) Children will write a friendly letter. Possible suggestions: thank you note to postmaster; invitation; personal; holiday card; get-well card. Children will write their addresses correctly on envelopes. Be sure to include return addresses of a Mailman, Duke Thomas See Film: "Day in the Life of a Mailman, Duke Thomas 4) Class writes original dramatization dealing with post office activity. Children may have roles either as postal workers, mailmen, letters or postmaster. destination. functions needed to get letter from a source to Play should stress coordination of postal workers specific tasks. * letter for correct format and proced. to its destination. See Film: :: the SUGGESTED ACTIVITY :: letter "The Modern Post Office" Example: × that he :: ;; Mailman The child will GRALE/SUBJECT :has written ;-::-::-:: and explain the function of ... correctly addressed Primary The child will 1-* :;-**K**−3 ::-Bags Film #27 Film #25 *; Orange boxes or Letters Local Mailman RESOURCE simulate baskets S. Post Office * ; ::-:;-

•				
•				
		then the child Will trace its trip to the school.	to a carton, and	random into
		brackers to chool the trip to the school	action with	
	ilms. Thrown at	students to choose from among classroom materials and fi	Toochor will allow	
				:
			United Parcel)	
•	•		trucking com- panies (Example:	delivered. Example: paper
57		4) Make individual bookle of all of the truckers th	materials are delivered to the school by various	source of other supplies in his room and how they were
		3) Each child will research a single classroom supply and how it reached the classroom, interview truckmen whenever available. Use main office secretaries as resource soons	Year. Most school	ier.
		s and what his will order	ply our school throughout the	building from several sources through various delivery services. Example: BOCES
	Film order forms Film #29	 Arrange with main office to meet BOCES Film Carrier as he arrives at school. Bring class out to see film truck. Talk with driver about route and delivery pro- 	There are lending libraries of films which sup-	The child will recognize that films come to the school
•	RESOURCE	SUGGESTED ACTIVITY	CONCEPT	OBJECTIVE
	* * * * * *	****	* * * * * * *	* * * * * * * * * * *
	ł			
	and Freight Carrier	of delivery men to our school Example: Film Carrier a	The importance	3
		STRATEGY NUMBER CRACTICITY K-3	the Scenes	NAME OF UNIT People Behind



	ion and working conditions.	100	<u>.</u>
advantages,	above stories for content concerning job requirements,	Teacher will check	EVALUATION PROCEDURE:
58			;
	a) Why b) Why		
P. 0. Box 813 Seattle, Wash 98111	h) What is your pay based on? (number of pianos tuned or hours worked) 2) Each child will write a story on one of two topics.	vantages	•
Nationwide Piano Technicians Guild,	Do your ed s ye your ich?	inherent advan-	
Information			training, workday, tools, job advantages and dis-
Piano Tuner Piano	Interview and ob is at school. S) How did you becher?	A piano tuner's job requires specific skills	The child will be able to describe the job of the
RESOURCE	SUGGESTED ACTIVITY	CONCEPT	1 1
10 10 10 10 10 10 10 10 10 10 10 10 10 1	· * * * * * * * * * * * * * * * * * * *	* * * * * *	* * * * * * * * * * * *
	importance of the piano tuner's job in our school.	understand the impo	ano Tuner: To
	STRATEGY NUMBER 1 CRACE/SUBJECT Primary K-3	the Scenes	NAME OF UNIT People Behind



Truckers--Food and Non-Food

BOOKS

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- 7. Hastings, Evelyn, Let's Visit the Post Office, Belmont, 1967
- 8. Hoffman, Elaine, Community Life, Melmon, 1967
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- 17, Seiden, Art, The Cub Book of Trucks, Lion Fress 1966
- 18. Shannon, T, Food and Where It Comes From, Children's Press, 1961
- 19. Zim, Herbert Spencer, Trucks, N. Y. Morrow, 1970
- 20. Zoffo, George J. The Big Book of Real Trucks, Grosset and Dunlop, 1964

AV MATERIAL

- 21. SVE Picture Series, Moving Goods for People in the City, SP 130
- 22. BOCES film Story of Wholesale Market, C 11 min. 00036
- 23. Posters-Community Life Society for Visual Ed. 8 pictures story on back
- 24. BOCES-Food for the City, C-12 min 00098
- 25. BOCES-The Modern Post Office, C 13 min. 00315
- 26. SVE Picture Sets "Postal Helpers"
- 27. BOCES Film Duke Thomas, Mailman C, 16 min C0010
- 28. SVE FS How Wa Get Our Foods, 4 FS on Mil, Bread, Fruits and Vegetables, Meat
- 29. BCCES-Trucks In Our Neighborhood C-12 min C00172
- 30. Tross Assoc. S Community Helpers, Special Delivery-Story of Our Post Office



STRATEGY	
NUMBER	
1	

GRALE/SUBJECT Primary K-3

Major Aim Piano Tuner: To show that sound is produced by vibrations

People Behind the Scenes

NAME OF UNIT

EVALUATION PROCEDURE: * that sound is produced by vibrating objects. The child will demonstrate OBJECTIVE * ;; ;; ٠, was produced. >;-: Each child will produce sound using materials of his own choice; and explain how the sound produced by struments produce different sounds. Different invibrating. 1) Sound is :-CONCEPT :;-* Children may work as individuals or * : ;;produce and make various sounds. of shoe to cause vibrating. Children listen to vibratpitch to demonstrate vibrations. 3) Children will experiment on various instruments to sounds. vibrations on various instruments produce different stops. Elicit from children these understandings: Experiment with tuning forks of various sizes and pitch to demonstrate vibrations. Strike fork on heel 2) Invite older children and music teacher to show how (through discussion) ing fork for sound. When vibrating stops, the sound :;-(b) Why did the sound stop? (c) Why do the forks have different sounds? >;-* SUGGESTED ACTIVITY ;; ;; * (*) a) What causes sound? * * in groups for these demonstrations. *;-: * * * ;; ۲,-:;-::-Franklin Watts 1962 Smith, Peter Huntington, Harriet Tune Up, Coubleday The First Book of Orchestra, N. Z. Walck 1951 Balet, Jan What Makes An the Orchestra RESOURCE ::-:: ÷ :; 1942 ::



they have made	To to use o	People Behind
in class.	show that different * * * * * * CONCEPT 1) Different sounds are produced by different ent instruments. 2) Sounds produced by the instruments are cffected by size, shape, thickness and material used in making the instrument.	the Scenes
After classes as the storms ton.	instruments produce differ * * * * * * * * * * * * * * * * * * *	STRATEGY NUMBER 3

NEME OF UNIT People Beh	People Behind the Scenes	STRATEGY NUMBER 4 GRALE/SUBJECT Primary K-3	
Piano Tuner: To	recognize that	sounds come together to make music	
安 传 安 特 特 特 特 等 等 等	*		
ABJECTIVE	CONCEPT	SUGGESTED ACTIVITY	RESOURCE
The child will relate music	1) Music can) Each child brings in a	Records
	bring us pleasure, beauty and relaza	is a favorite of his, if he has one, and shares it with the group. The child can tell classmates why he enjoys	cassette
	tion.	this particular piece of music. Teacher may introduce	Record Player
		records in musical areas not included in children's	Rhythm Instruments
	2) There are	selections.	
	of the orchestra	(school hand orchestra or chorus) Give opportunity	"Toot Whistle Plunk
	- .	wasn't personally enjoyacie.	מוים ביים וויסים ביים
•	different sounds		
	which contribute	when available, so that children can have easy access	
	to the whole	to a record or tape collection of musical pieces in	
	musical piece.	which children have indicated interest. Child can use	2
		music corner for moments of relaxation.	6
		ld) Teacher will have a variety of rhythm instruments	
;		and ask each child to choose one to express an emotion.	
		happy feeling) The rest of the group could guess the	
		feeling as child performs.	
		isic teacher to	
		students who will demonstrate the sounds produced by	
		the various instruments within the orchestra.	
EV LUATION PROCEDURE:			

Major Aim_

NAME OF UNIT People Behind the Scenes

* * *

OBJECTIVE

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the increased (hopefully)	PROCEDURE: Teacher will note how	4	IVE CONCEPT CONCEPT	People Behind the Scenes Piano Tuner: To recognize that sounds
sharing of favorite records with each other.	voften music center is used by children for pleasure and relaxation	, of it	SUGGESTED ACTIVITY	STRATEGY NUMBER CRACE/SUBJECT Primary K-3 ounds come together to make music
RIC MARKET LICE	63		*	

EVALUATION PROCEDURE:

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. . .

EVALUATION PROCEDURE:	NAME OF UNIT People Behind the Scenes NAME OF UNIT People Behind the Scenes Sanitation Engineer: To make Sanitation Engineer: To make NAME OF UNIT People Behind the Scenes Sanitation Engineer: To make NAME OF UNIT People Behind the Scenes Sanitation Engineer: To make CONCEP 1) To have children list five activities of the garbage removal. 2) To have children list five activities of the garbage man-sanitation engineer. 3) The children will list the advantages and disad- vantages of being a sanit tation engineer. 3) Society a social s on people volved in tion activ Howcver, essential society i
	child child re- healt re- healt rbage of its in- ination sanita in- sanita vork to s good
	aware of the necessity and importance of sanitation engin aware of the necessity and importance of sanitation engin saware of the necessity and importance of sanitation engin aware of the necessity and importance of sanitation engin seware of the necessity and importance of sanitation engined importance of sanitation engineer will talk to the class discusses lists to find out quantity and variety of discarded materials. 1b) Children will visit the school garbage area when custodian is emptying small cans of garbage into the large bins. 1c) Children will see movie on Garbage. Class discussion will follow this movie. 2) The sanitation engineer will talk to the class to inform the children of his duties and his entire work day. 3) Class discussion on what you think and feel about the work of garbage removal. Why do you feel the way you do? How does it compare with your father's job? Attempt, in this discussion to bring out innate prejudices associated with this work.
	neers * * * * * * * RESOURCE Movie-Garbage BOCES Walt Disney Sanitation Enginee



PIANO TUNER

BOOKS

- 1) Balet, Jan, What Makes An Orchestra, N. Z. Walck, 1951
- 2) Huntington, Harriet, E., <u>Tune Up</u>, Doubleday, 1942
- 3) Mandell, Muriel, Make Your Own Music Instruments, Sterling 1957
- 4) Smith, Peter, The First Book of the Orchestra, Franklin Watts, 1962

AUD 10-VISUAL

5) BOCES Film: "Toot, Whistle, Plunk and Boom" color 10 min.



	STRATEGY
:	NUMBER
	2

		recycling plant.	and a
land fill area	engineer, function of the garbage dump, incinerator,	ay of the sanitation	work day
cies in the	ude these aspects: The need for garbage removal, activities	puppet show will include	The pu
other classes.	their own hand puppets to put on a puppet show for	The children will make	EVALUATION PROCEDURE:
			•
000		•	
Ency. Britannica- Waste Disposal G			
Filmstrip:		יייייייייייייייייייייייייייייייייייייי	
Charles W. Clarke, Co., Inc.	lb) Class will discuss the possibilities of a garbage strike and how it would affect the school and the community.	mer 2	removal schedule.
CommunityThe Sanitation Worker-	of this practice		daily garbag
<u>Transparency</u> People Who Help Our	la) Let garbage be accumulated over a few days in the classroom. Children will observe and discuss the con-	Garbage must be	The child will be able to
RESOURCE	SUGGESTED ACTIVITY	CONCEPT	OBJECTI
* * * * * * * * * * * * * * * * * * * *	*****	* * * * * * *	* * * * * * * * * * * * * * * * * * * *
	aware of necessity and importance of	Sanitation EngineerTo make children	Major Aim Sanitation Eng
neers.			NAME OF ORIGINAL
	GRALE/SUBJECT K-3	Scenes	People Behind the
	TRATECY NIIMBER A	'n	



NAME OF UNIT People Behind the Scenes NAME OF UNIT People Behind the Scenes NAME OF UNIT People Behind the Scenes ORACE/SUBJECT Primary K-3 Fiajor Aim Sanitation EngineerTo make children aware of the necessity and importance of sanitation engineers.



	ç		
	e various duties of our school custodian.	buttons and slogans the	and
and displays	Custodian Day" in which they will publicize via porters	Class will have a '	EVALUATION PROCEDURE:
School Custodian (District Publisher:			;
Civil Service Booklet for Custodial Helper	his activities using the individual's reports. (drawn his activities using the individual's reports. (drawn or written) or written) lc) Have poster contest for school beautification posters will depict ways in which children may team up with custodian to keep surrounding beautiful.		
Bulletin Bd. materials Rockland County	structed by class. Ask custodian to include the full structed by class. Ask custodian to include the full spectrum of his activities from maintenance of school machinery, to snow removal, lawn cutting, school cleanup, traffic control, etc. Ib	of duties to keep the school and its grounds in good condition	custodian.
Custodian Oaktag for posters	la) Children will individually or in small groups interview the custodian as he performs his chores. Attempt to have a child or group with him for the en-	to The school custodian per-	The child will be able to .list and describe the .duties of the school
RESOURCE	* * * * * * * * * * * * * * * * * * *	concept concept	A A A A A A A A A OBJECTIVE
	e importance of maintenance men to school	chool Custodian The	Major Alm Maintenance-School
	STRATEGY NUMBER 1 GRACE/SUBJECT K - 3	Si Behind the Scenes	NAME OF UNIT People B



SANITATION ENGINEER

AUDIO-VISUAL

- 1. BOCES film Garbage B-11min 00217
- 2. FS-Charles W. Clarke Co., Inc. People Who Serve You Your School
- 3. FS-Coronet Instructional Materials, Workers Who Provide Services S168
- 4. FS Educational Research Service Classroom Journeys--A Trip to a Sewage Plant
- 5. Transparency- Charles W. Clarke Co., Inc. People Who Help Our Community--The Sanitation Worker
- 6. FS-Encyclopedia Britannica-Our Public Itilities--Waste Disposal EB 9100



Air Conditioning

Check condition, alignment and tension of drive belts and adjust or replace them.

Check, adjust and lubricate motor and fan bearings.

Check, adjust and lubricate louvers, dampers and other mechanical controls.

Check size, number and cleanliness of filters.

Check operation of safety controls and adjust or report.

Check for and report unusual noises, vibrations or obvious malfunctioning.

Building shell (exterior)

None except as listed under carpentry, electrical, glazing and roofing.

Carpentry

Tighten or replace loose screws, bolts, nuts, etc.

Repair, adjust or replace hardware.

Check and repair shades, blinds and curtains, and restring venetian blinds if required.

Check and adjust or repair window frames, sashes, locks and operating .

Check doors, trim if necessary, and adjust, repair or replace handles, looks, checks, etc.

Repair or replace loose floor and ceiling tile (except where major replacement is required).

Repair and Lubricate lockers, folding bleachers and tables, other physical education equipment.

fasten loose trim, counter tops, moldings, mop boards, sills, thresholds and stair treads.

Hake minor repairs to wooden furniture.



Electrical (exterior)

Replace broken or burnt-out lamps in hard-to-reach places.

Check fixtures and mounting brackets for loose mounting bolts and wire connections, level or installation, and broken reflectors and glassware and tighten, adjust, repair or replace.

Check controls equipment for proper operation and report malfunctions.

Electrical (interior)

Check for oversized fuses and lamps, improper use or length of extension cords, use of wiring as support, and possible fire hazards, and correct. Check for defective or worn convenience outlets, switches, breaks and plugs, and repair or replace.

Check lighting fixtures and repair.

Replace ballasts.

Replace burnt-out lamps in hard-to-reach places.

Check miscellaneous electric motors and clean and lubricate.

Check operation of fire alarm system and exit lights and repair.

Glazing

Replace hazardous broken window and door panes, mirrors, etc.

Replace damaged panes.

Grounds

Adjust, tighten and lubricate playground equipment.

Report hazardous conditions.

Heating.

Cheek radiators, un.vents and other room-heating equipment.

Repair leaks, clean and lubricate mechanical controls.

Adjust or replace drive belts.



Kitchen Equipment

Check, lubricate and adjust. Report malfunctions.

Plumbing

Unstop sinks, drains, toilets, urinals.

Adjust, repair or replace leaking faucets and valves. Secure loose fixtures and fittings.

Replace toilet seats, paper holders, and dispensers if required.

Refrigeration equipment

Clean and lubricate motors and fans.

Clean coils if necessary.

Adjust or replace drive belts.

Check for, report malfunctioning.

Roofing

Check, clean, adjust and lubricate roof-mounted mechanical or electrical equipment.

Adjust or replace drive belts.

Check roof drains, gutters and downspouts, and clean if necessary.

Report leaks or roof damage.

Ventilation equipment

Check condition, alignment and tension of drive belts and adjust or replace. Check, adjust and lubricate motor and fan bearings.

Check operation of Louvers, dampers and mechanical controls and adjust

Check size, number and cleanliness of filters.

Check for and report unusual noises, vibrat ons or obvious malfunctions.

Television, radio, public address, and audiovisual equipment

None



The child will be able to state the work and importance for of the glazier to the school tia and describe some of the tools he uses. The child will be able to for the school the school tia in using the tools he uses.	NAME OF UNIT People Behind the Scenes Name of Unit People Behind the Scenes Najor Aim Maintenance, District-Wide Repairman (Window Repairman glazier (preferably taught when glazier is present)
CONCEPT The glazier performs an essential service for the school (keeps all glass in good condition using special skills and tools to do his jub.	e Scenes ide Repairman
SUGGESTED ACTIVITY la) Invite glazier to speak to class to describe his job, his work day and the tools he uses. He will demonstrate the way to use each of his tools. Class will ask glazier prearranged questions as: will ask glazier prearranged questions as: l) What is your day like? 2) Where do you get the glass? Putty? 3) What training do you need to be a glazier? 4) What are some dangers you face in your work? 5) What is the most difficult aspect of your job? 1b) Glazier will help children to use his tools correctly and safely-glass chisel, suction tool, putty, cutter, etc. Children will observe how large pieces of glass are wrapped for protection, the gloves worn by the glazier; special glasses; special clothes for protection from small fragments.	STRATEGY NUMBER 2 GRALE/SUBJECT k-3 Repairman (Window Repairer) To have children experience and observe the work of the when glazier is present)
RESOURCE International Brotherhood of Painters and Allied I ades, 1925 K St. N. W. Washington, D. C. 20006 Glazier: chisel hammer putty Truck with boom to reach higher places.	e the work of the

EVALUATION PROCEDURE:

Major / im_ EVALUATION PROCEDURE: NAME OF UNIT stallation. advantages in care and insent advantages and dis- . ferent types of glass pre-* To recognize that dif-**OBJECTIVE** Maintenance-District-Wide Repairman (Window Repairer) To have children experience and observe the work of the glazier. * People Behind the Scenes * working conditions, safety procedures, clothing and truck with boom. will be shown and explained to other classes Children will plan, organize and draw a mural which depicts the glazier's tools, materials, window panes each different types advantages and with their own and sizes of * disadvantages. There are * CONCEPT * * ::-* STRATEGY NUMBER panes? will make a class scrapbook with the pictures accomglass storage, and workshop surroundings. far as replacement and expense are involved? workshop. Children will observe tools, equipment, panied by appropriate captions. 2b) Children look for pictures in various magazines house. 2a) Have discussion with children: 2c) Children plan and take class trip to a glazion's to find different types of glass and windows. Children ::-::-* What are the advantages and disadvantages as Should you have a large picture window or small *ነ*፦ ተ SUGGESTED ACTIVITY ;; 2 (Continued) * * * **:**;-::-* You are buying a * ::-::-Primary ۲,-The finished mural ;; **ベー**3 :: Magazines RESCURCE Workshop of Glazier ;; ::-: ::-74

EVALUATION PROCEDURE: Make a school helper's booklet with pictures of each special worker perfo	special repair- men are hired by the school dis- trict to do these jobs.	tell class why he chooses job	ning neces- 1b) When chart of special repair to repair in as many repairment who are maintain all sible, to discuss their work,	la) List all equipment in use. Then make a chart of include walls (paintings,	유 유 유 유 유 유 유 유 유 유 유 유 유 유 유 유 유 유 유	NAME OF UNIT	People Behind the Scenes STRATEGY NUMBER 3
special worker performing his job.	 •	perform jobs. Child will he does.	irmen is complete, write in the building as postools, working condition,	classroom and bathroom children who conditions or repairs it. bathroom fixtures, etc.)	* * * *		** / C D C T T T T T T T T T



MA INTENANCE

BOOKS

- 1. Rockland County Civil Service Booklets
- 2. Green, I Want To Be a Carpenter, Children's Press, 1959
- 3. Wilkinson, Jean and Ned, Come to Work With Us in House Construction, 1970

AUDIO-VISUAL

4. FS-Educational Readers Service Our School Workers



CAREER EDUCATION TEACHER'S GUIDE

Grades 1 - 3

BOOKS

Copyright: Board of Cooperative Educational Services Rockland County, New York 1974

Rockland County Career Education Program Dr. Laurence Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is <u>not</u> our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

Particular mention should be made of those teachers who originally developed the premise for this Guid:

R. Berlin - East Ramapo

J. Goldfarb - Pearl River

J. Malgieri - Clarkstown



INTRODUCTION

Books play an important role in every child's life. However, how many children consider the numbers of people who are involved in the production of a single book? In this minimunit, it is our intention to bring these people out from between the covers. Using the books that the children touch each day, they can begin to develop an awareness of the world of work.

In the process of creating their own books the children will have an opportunity to experience a variety of book related jobs.

This mini-unit may be infused into The Language Arts Curriculum.

We hope that after this unit has been completed, books will have an additional dimension for each child. We hope all students realize that books themselves are the final products of the total efforts of many people working together.



STRATEGY NUMBER GILLDE/SUBJECT 1 - 3 Language Arts

NAME OF UNIT Books

MAJOR AIM_ To develop an awareness of the variety of books that exists.

cypes	EVALUATION PROCEDURE:	•		fiction, non-fiction, biography, text, etc.)	The children will list and categorize many different types of books, (picture,	**
10000	hooks (eg one			lives.	Books come in a variety of forms and serve many purposes in our	* * * * * * *
	go to the library and find examples of at least three different picture book, one biography, one non-fiction, one fiction, etc		(3) Teacher may be interested in obtaining and showing some of the following filmstrips: (a) How Can I Find Out? (b) Visit to the Library (c) How the Card Catalog Helps You. (d) Glad Book, Sad Book (e) Taking a Trip with a Book and/or any othc. films or filmstrips that can be found.	(2) Children will take a trip to the library, (public or school) to see the set-up and where the the different types of books can be found. Wherever applicable, the Dewey Decimal System may be intro-	Teacher and/or librar show a variety of boow will discuss and attempooks.	* * * * * * * * * * * * * * * * * * *
	etc.)		81.	Chosen films and/or film strips	About a Book Mildred L. Nickel F. Watts Co. 1971	* * * * * * RESOURCE

:

STRATEGY NUMBER

GRADE/SUBJECT

NAME OF UNIT To recognize that people do different jobs to produce books Books

MAJOR AIM * * OBJECTIVE :;• ; :;-:: CONCEPT * ;; ;;-* * SUGGESTED ACTIVITY ;; ;;-;;-* * ;;-RESOURCE

production. jobs related to book describe at least 5 able to identify and The children will be making of a book. jobs go into the doing different Many people different jobs which go into the publishing of a librarian may be used.) of favorite books to ask them about their work and questions to ask these people are: children on the specifics of his/her job. Some have a book publishing related job to speak to the bookbinder, editor, salesperson.) book, (eg. writer, illustrator, photographer, printer Work. invite them in to speak with the class about their into the publishing of a book. library to find out more about the jobs which go (2) As an added activity, children may go to the ives. (i) How does your job affect your life style? Have children write to authors and illustrators Invite the parents, friends, or relatives who invite a resource person from a local publishing (a) What training do you need for the job? <u>e</u> (b) Do you have to live in a special location If authors and illustrators are local, where do you work? home-artist office-How many hours do you work each day? Do you have time for hobbies? How did you find your job? Do you work alone or in a group? Do you enjoy the job? for good job opportunities? (If neither is available the Discuss with children the ed i tor Chosen books

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EVALUATION PROCEDURE: rank white will aboos a favorite book and describe 5 people who were involved in First graders may describe with pictures, second and third graders may use words

to do this. Then use these pictures and word descriptions to create a bulletin board about books its production.

and their production.

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	STRATEGY NUMBER
	NUMBER
GRADE/SUBJECT ! -	
r I - 3 Language Arts	

NAME OF UNIT

Books

	be Crea	OBJECTIVE CONCEPT	ecognize that creative wri
Favorite character. Author's aim. Was it true. With a buddy, each sudent will write with a buddy, each sudock for proper form	ch child will obtain or and discuss it with discussion could be:) Why they liked it.) What the story was	SURGESTED ACTIVITY	is an i
	BOCES film	RESOJ	* * * *
	(c) Favorite character. (d) Author's aim. (e) Was it true. (2) Show children film "Let's Write a Story" (3) If possible, include in a writer to speak to the children about creative writing. (4) Each student will write his or her own book. Working with a buddy, each student will edit his/her buddy's book for proper form and grammar.	Creative writing and share and discuss it with the class. Suggested skill for success- (a) Why they liked it. (b) What the story was about. (c) Favorite character. (d) Author's aim. (e) Was it true. (2) Show children film "Let's Write a Story" (3) If possible, invite in a writer to speak to the children about creative writing. (4) Each student will write his or her own book. Working with a buddy, each student will edit his/her buddy's book for proper form and grammarr.	CONCEPT (1) Each child will obtain one favorite book Creative writing and share and discuss it with the class. Suggested tory is an important (a) Why they liked it. (a) Why they liked it. (b) What the story was about. (c) Favorite character. (d) Author's aim. (2) Show children film "Let's Write a Story" (3) If possible, invite in a writer to speak to the children about creative writing. (4) Each student will write his or her own book. Working with a buddy, each student will edit his/her buddy's book for proper form and grammar.

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STRATEGY NUMBER

NAME OF UNIT

Books

GILLOE/SUBJECT

Ξ

1 = 3 Language Arts

HAJOR AIM EVALUATION PROCEDURE: with art work or original stories photography their able to illustrate The children will be for their books. OBJECTIVE ::-؛ڊ To recognize that illustration : * Children will illustrate the story which they had written in the previous strategy. :÷ part in books. play an important and photographs lliustrations ų. :: CONCEPT * * * <u>.</u> story. children like, why they like them, does it add variety of illustrations and photographs. or any other which the teacher feels shows a good also: materials. eg. Where the Wild Things Are, by Also, a development kit might be made available. how were they made, why were they included in the to talk to the children about their job. 2) to the story, how do the colors make them feel, (1) Teacher should bring in a variety of illustrated ب. an important skill in producing a book. (3) If possible, invite an artist or illustrator * A camera could be made available to the class. A discussion should follow as to which the Brian Wildsmith's Books, Leo Lionni's books, Beatrix Potter's Books, Charles Shultz's Books Dr. Seuss' Books, Ezra Keat's Books, * SUGGESTED ACTIVITY ×. Maurice Sendak ķ ;-;; ; RESOURCE chosen books Illustrations from Development kit Camera **Photographs** ۲, Teacher);· ;; 84 ٧,-

should have all sorts of art material

available for the children.

Also, the art teacher may be

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consulted for this project.

STRATEGY NUMBER V
GRADE/SUBJECT

1 - 3 Language Arts

MAJOR AIM Children will produce their own books.

NAME OF UNIT

Books

or women, advertising related jobs.
books using a variety of binding techniques appropriate to their age levels, (staple, tie together, or actually bind the books, depending on age level of the children.) Books will be displayed for other classes. Jobs related to books: Bookbinders, artists, illustrators, writers-authors, photographers, typesetters, photo engrayers cameramen, strippers, typesetters, plate
Children will complete Completion of a assortment of books the teacher has distributed their original books, project is a utilizing their individual stories and vidual stories and learning. (1) Children will investigate the format of an assortment of books the teacher has distributed around the room. Discussion will follow which will focus on components of book design as well as various illustrations.
OBJECTIVE CONCEPT SUGGESTED ACTIVITY
蒙 环 子 不 不 不 不 不 不 不 不 不 不 不 不 不 不 不 不 不 不

CAREER EDUCATION TEACHER'S GUIDE

Grades 3 - 5

CAN I BE A SCIENTIST?

Copyright: Board of Cooperative Educat onal Services Rockland County, New York 1974

Rockland County Career Education Program Dr. Laurence Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refecused in order to emphasize Career Education.

It is <u>not</u> our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent forma', so that teacher need not reinterpret a new format for each of the Suides.

Part cular mention should be made of those teachers who originally developed the premise for this Guida.

> East Ramapo Sheila Abrams

South Orangetown Kathleen Bristol -

Nyack D. Anne Nash



INTRODUCTION

This Career Education Guide is designed primarily to serve as an introduction to the year's study of science, and focuses in on the work attitudes and skills that scientists need. During this unit (which is designed to take approximately two weeks), the students will examine the occupational role of a scientist; self-evaluate their interests and skills, and relate the results to those required for entry into the field; be introduced to, and carry out an experiment following, the scientific method; and be introduced to the concept of, and carry out an experiment following, the team research technique.

The unit culminates in a "Career Day" activity during which the children present biographical sketches of well-known scientists in order to further develop their understandings of the occupational roles found within the field of science.



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Science, Grades 3-5

MAJOR AIM To develop a better understanding of the role of a scientist NAME OF UNIT Can I Be a Scientist?

The student should be able to define the verm "scientist".	OBJECTIVE	
job sts s.	CONCEPT	
Prepare a ditto of the attached sheet, and pass them out to your class. These sheets may be read individually, read together as a group, or read by the teacher - depending upon the reading abilities of your class. A short general discussion might follow this activity, seeing what your children know about scientists in general, or about any specific scientists with which they might be familiar. You could then begin a "mini-dictionary" which could be added to the during this unit (or even kept throughout the year if the children are motivited in this area). The individual seed that the area of seed in this area. In a coups, or by the entire class as a class project of the fact that the area of seed want want to set up the dictionary in one of the following ways: -each child cculd have his/her own 'mini-dictionary'. With a peed cover each letter of the alphabet, and a handmade cover to be a class project if it is to be a class project if it is to be a class project could be cresponsible for all the wordsished, the pages could be assembled as a finished product. Seembled as a finished product. The child could be assembled as a finished product. Seembled as a finished product. The could be assembled as a finished product. The could be assembled as a finished product. The children should be encountered during this unit. The children should be encountered to add to the dictionaries whenever they meet an unfamiliar term.	SUGGESTED ACTIVITY	
	RESOURCE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
90		

EVALUATION PROCEDURE: The children should participate in the discussion following the reading of the dittoed sheet. In addition, the children should be able to define the term "scientist" in their own words after completing the "mini-

dictionary" activity.

What Does It Mean to Be a Scientist?

All through history, there have been scientists. Some of them lived long ago when man did not know much about science. They made their discoveries with-out tools, or instruments, or laboratories.

Many scientists are living today. They work in laboratories, in factories, in classrooms, in hospitals, and in the open country. Today, the scientists have excellent tools and many different kinds of instruments. They have books that tell all about the experiments and the discoveries of the scientists of the past.

Scientists of long ago, scientists of today, and you, who may be scientists in the year 2000, will be alike in the most important ways, although the methods of working may be very different.

If you are a scientist, you will:

- Observe carefully -- you will see thε world around you.
- 2. Ask questions -- you will ask, "Why is this true?"
- 3. Make experiments -- you will say, "What would happen if I did this?

 Or this?"

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NAME OF UNIT able to complete the "Can The MAJOR AIM could consider a career in sheet indicate that he/she to write a paragraph tell The student should be able I Be a Scientist?" sheet the field of science. to the questions on this int whether or not he/she feels that his/her answer: EVALUATION PROCEDURE: student should be × OBJECTIVE ;;-₹ ÷ become Can ٠,٠ ;-Ве more The students should have a) :: Scientist? Certain skills are Prepare a ditto of the attached sheets, and pass them needed in order to by the class on an individual basis. You may or may successfully pursue not wish to discuss these sheets before the class be a career in science discussed after the students have completed them discussed after the students have completed them (although it would probably be advisable not to discuss individual students answers since they may be hesitaht about revealing their self-evaluations). During this discussion, you may want to bring out the aware * of ;; CONCEPT some ; ;; of. STRATEGY NUMBER -the fact that depending upon your choice of occupational role within this career family, college may rional not be an essential part of your preparation or may not be an essential part of your preparation, or may not be an essential part of your preparation, or may not be an essential part of your preparation, balanced by the rewards of success in solving the balanced by the rewards of success in solving the problem the subjections of science, you may wish to direct the class (listed previously), you may wish to direct the class (listed previously), you may wish to direct the class of science. You may or may not their answers have a career in the field of science. You may or may not wish to bring up the science. You may or may not wish to bring up the fooking at their abilities and attitudes), or from the subjective approach (simply active approach (simply active approach (looking not only at their abilities and attitudes, but also the level of interest that they feel for this area). the work attitudes and skills needed to become a scientist ;; following points: --the parience that is usually associated with the completed the dittoed sheet to the best of their ability ų. carrying out of experiments level). 'n. ;; GILLIDE/SUBJECT Also, * SUGGESTED ACTIVITY :: the ÷ ;; y, :: ::-Science, Grades 3-5 :: ::-;; ; Dittoed sheets "Can веа RESOURCE (considering the Sciencist?" ١;٠ ::

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level of self-awareness of their abilities their writing ability at this level), discussing their answers at this to students should have written a paragraph (consistent the questions, and whether these indicate

with possibility 앜 pursuing ω career 5 the t ield of. science

Can | Be A Scientist?

"Can I Be a Scientist?" This is a question you may be asking now. Of course, no one can tell you for sure, but there are some questions you can answer which may help you to know whether or not you can think seriously about being a scientist.

- 1 Choose the best answer.
 - 1. A scientist
 - a. does not ask questions
 - b. is very curious
 - c. believes everything he reads
 - 2. A scientist
 - a. never learns new things
 - b. stops learning when he finishes school
 - c. is always learning
 - 3. A scientist usually works
 - a. with a team
 - b. very little
 - c. alone
 - 4. To work within the scientific experimentation field you must
 - a. have a college degree
 - b. have special training
 - c. be a good speller
- II Underline the answer you choose.
 - 1. If you do not know the answer to a question, would you rather
 - a. have someone tell you the answer?
 - b. find the answer yourself?
 - 2. When you are told something is true, do you
 - a. usually accept it as being :rue?
 - b. usually question it?
 - 3. When you want to know "why" something happens, do you
 - a. usually ask someone to tell you?
 - b. usually experiment on your own?
 - 4. Do you ∈njoy reading
 - a. only stories about make-believe situations?
 - b. also about real people and things?
 - 5. When you find a job hard to do, do you usually
 - a. rush through to get it done?
 - b. work slowly and carefully?



4

STRATEGY NUMBER

GRADE/SUBJECT_

Science, Grades 3-5

NAME OF UNIT Can i Be a Scientist?

MAJOR AIM_

To become more aware of some of the work attitudes and skills needed to become a scientist

ies should maet	two of the activities (or other	ete at least
should be able	The students should actively participate in the class discussion. The students	EVAIUATION PROCEDURE:
	'	
	2. Make a collection. You might want to collection different leaves, or rocks, etc. Make sure you follow the guidelines for a scientific collection (listed above in Item 3).	
	is the hall in your school for teacher is eves? NK of other questions which ervation?	
	-Without counting, how many windows are in your	
	l. Learn to observe carefully. Test yourself on these	
	projects correspond to the numbers of the topics for	
~	e to give the children	
9	ACTIVITIES: Following this discussion, you may wish to assign the following projects. (A suggestion would	
)4	All workers in sc	
	y learn about it or	
	accurately in writing. What a scientist sees or learns, he must be able to write clearly so that others	
	overed with plastic of	
	telling where it was fit is, (c) kept clean	tudes and skills needed.
	piled on a	ist and t
old newspapers	This does not mean a lot of things put	e in the a
TIOWERS	career in science. 2. In all fields of science, there is	them some
rocks, leaves,	fully pursue a 11. The starting point in a	of the rour activities
such as:	in order to success following are needed in the field of	
	le Certain Skills and Tou may wish to the attitudes and abilities already	e student should be
Materials brought	College:	1
RESOURCE	SUGGESTEL	*
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the requirements set down above as to organization, accuracy of the information gathered, etc.

NAME OF UNIT_ MAJOR AIM To become more aware of some of the work attitudes and skills needed to become a scientist. * EVALUATION PROCEDURE: :: OBJECTIVE Can I Be a Scientist? * * CONCEPT STRATEGY NUMBER_ ; 4. Build a library. If you do not have books, you Learn to write observations carefully. Choose can cut articles from newspapers and magazines and many other things.). date did you find it? (You can practice this kind of writing with trees, clouds, birds, tools, What kind of soil was it growing in? On what it? How tall? How many petals? What shape? a flower. Make notes about it. What color is and mount them in a scrapbook. * : GRADE/SUBJECT ယ SUGGESTED ACTIVITY ;; (continued) * * * ::-Science, Grades 3-5 ;; : 77 ::-RESOURCE : * 95

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STRATEGY NUMBER.

GK:DE/SUBJECT

Science, Grades 3-5

NAME OF UNIT Can | Be a Scientist?

MAJOR AIM To acquaint the students with The Scientific Method.

		thod in his own words, cluding the five steps.	The student should be able to describe the scientific v	100 × 5 5 5 5 5 5
		solve, scientists follow a general method of trying to find the solution.	When confronted with a problem to	CONCEPT 1
	Once these steps have been brought out (and it may be helpful to list them on the board, or on oaktag, or on helpful to list them on the board, or on oaktag, or on helpful to list them on the board, or on oaktag,	2. Make your best gue 3. Get all the inform 4. Study the informat a conclusion from 5. Test your conclusion		SUGGESTED ACTIVITY
etidonts could be asked	96		Board, or Oaktag, or Overhead Projector	RESOURCE *

to describe the scientific method--cither orally, or in written form. It is expected that most (and hopefully, all)

students will be able to do this accurately.

STRATEGY NUMBER GRADE/SUBJECT_

NAME OF UNIT Can I Be a Scientist?

Science, Grades 3-5

MAJOR AIM_ To become more familiar with The Scientific Method by carrying out an experiment.

EVALUATION PROCEDURE: The	,		method.	Optional Objective: The student should be able to complete a work sheet designed to show how their experiment followed the	The student should be able to carry out an experiment following the steps out-lined in the previous strategy regarding The scientific method.	*
evaluation of this the scientific met	CO 	ль о о о о о о о о о о о о о о о о о о о	3. 2.	P I I I	general method in scientrying to find a done solution to aas problemwit	* * * * * *
If you have included the work sheet as a part of	ron or	times (50 or more times). times (50 or more times). Touch several tacks with nail. Are the tacks now attracted to the nail? Information for Teachers: Observations: There is no magnetic pull amongst the tacks or between the tacks and nail—intil the nail becomes magnetized by stroking against the magnet.	1. Spread some tacks on the tableDo tacks tend to stick together? 2. Touch several tacks with nailDo tacks stick to the nail? 3. Hold nail in one hand, bar magnet in the middle of Stroke magnet, with nail, starting in the middle of the magnet and moving toward the end. Repeat many	hildren working individually ns for the experiment could be: orally the board or chart paper dittoes, passed cut to the children w can you make a magnet?	Atific method before beginning this Strategy #6). Then, this experimer in any of the following ways: a teacher demonstration a student demonstration the children working independent burs.	SUGGESTED ACTIVITY The standard of may not feel it necessary to review The
he activi	able to carry out			7	iron tacks nail(s) Optional: Work sheet on the scientific method	* * * * * * RESOURCE Bar magnet(s)

the experiment - Tollowing the Scientific

answers on this work sheet would serve as an evaluative tool.

STRATEGY NUMBER

GRADE/SUBJECT

ຜ

Science, Grades 3-5

NAME OF UNIT Can | Be a Scientist?

MAJOR AIM

To become more familiar with The Scientific Method by carrying out an experiment

Optional Objective: strategy regarding The The student should be able following the steps outto carry out an experiment steps of the scientific experiment followed the signed to show how their complete a work sheet destudent should be able to lined in the previous scientific method. EVALUATION PROCEDURE: The evaluation of this activity should focus on whether or not the student was able to carry out ġ. ÷ OBJECTIVE : ķ ķ The * : general method in Scientists follow problem trying to find a solution to a * ::-CONCEPT * ... ص ÷ (see Strategy #6). Then, this experiment could be done in any of the following ways:
--as a teacher demonstration
--as a student demonstration You may or may not feel it necessary to review The scientific method before beginning this activity --with the children working --discussed orally --written on the board or chart paper --written on dittoes, passed out to the children Experiment: PROBLEM: Now can you make a magnet? The directions for the experiment could be: --With the children working individually There is no magnetic pull amongst the tacks or between the tacks and nail--unfil the nail becomes magnetized by stroking against the magnet. Conclusion: Information for Teachers: * When magnetic material such as iron or steel is stroked on a magnet, the material becomes a magnet itself. It has become magnetized. Observations: Stroke magnet with nail, starting in the middle of the magnet and moving toward the end. Repeat many times (50 or more times).

Touch several tacks with nail. Are the tacks now attracted to the nail? Spread some tacks on the table---Do tacks tend to stick together? Touch several tacks with nail...Do tacks stick to the nail? Hold nail in one hand, bar magnet in the other. * * SUGGESTED ACTIVITY ;-Y. ÷ independently in small * ķ * ::-* . ;; nail(s) Bar magnet(s) Work sheet on the iron tacks scientific method Optional: RESOURCE ņ ::-:; * 97

the experiment - following the scientific method. If you have included the work sheet as a part of the activity, the

answers 9 this work sheet would serve as an evaluative tool.

Can | Be A Scientist? STRATEGY NUMBER GRADE/SUBJECT_ Continued - Science, Grades 3-5

NAME OF UNIT MAJOR AIM To become more familiar with The Scientific Method by carrying out an experiment.

EVALUATION PROCEDURE:		OBJECTIVE * * * *
		concept
	When the material that has been magnetized is of hard steel, it will hold its magnetism for long periods of time and become a "permanent" magnet. Soft iron will only act like a magnet while it is under the force of another magnet or magnetic lines of force produced by an electric current, etc. You may wish to have the children fill out an information sheet related to their experimentation and The Scientific Method. An example of such a sheet is attached.	* * * * * * * * * * * * * * * * * * *
	98	RESOURCE **

THE SCIENTIFIC METHOD - MAGNET EXPERIMENT

- 1. What was the problem you were trying to solve?
- 2. Before you began the experiment, did you make a guess as to how to solve the problem? If so, what was your guess?
- 3. Did you use any sources to find out about magnets before you began your experiment?
- 4. What conclusion(s) did you draw from your research?
- 5. Did your experimentation help confirm your conclusion(s)?



NAME OF UNIT Can I Be a Scientist?

STRATEGY NUMBER GRADE/SUBJECT

Science, Grades 3-5

experimentation (could his/her role in the	f occupational roles within the field of scientific	the three level	.list and accurately describe
ty of the student to	this strategy would include the following: (1) the ability	evaluation for	1
100	There are: (i) Theoretical ScientIst—ha expicres ideas, raises questions, expresses theories. (2) Experimental ScientIst—he does the lab work, sets up experiments, tests ideas. (3) Technician—he measures, observes, keeps data on the experiments. The Theoretical and the Experimental ScientIsts The Theoretical and the Experimental ScientIsts usually have a college education (+), whereas the Technician usually does not have a college education, but does have some specialized training. Following this discussion, the class should be divided into four groups: Biologists, Chemists, Physicists, and Technicians. It might be further explained that, biologists and with the study of live chemists with matter and energy and technicians with physicists with matter and energy and technicians with conce the groups have been established, the following team research project could be carried out.		Experimental Scientist Technician 3. The student should be able to take part in a team research project, by role playing one of the occupational roles listed above.
	There are three basic levels of occupational roles within the field of scientific experimentation.	der to solve a problem.	S
small amounts of fertilizer, epsom salt baking powder, andminit	You may wish to begin the class discussion by asking the following questions:Do all scientists work in laboratories? The students responses to these questions would en-	tists and Experimental Scientists are joined by Technicians in or-	2. The student should be able to describe the gen- eral objectives of the following occupational
18 seeds (such as lima or radishes)	have to be provided by the teacher, unless you wish to make a ditto and pass out information sheets prior to the discussion.	a teamwork in which	roles within the field of science.
Materials needed:6 pots (paper cups will work just as well	The first part of this strategy will involve a class discussion which should be followed by the team research project. Much of the information that should search project. Much of the information that should come out during the class discussion will probably	A great majority of scientific re-	l. The student should be able to list the three
Œ	* * * * SUGGESTED ACTIVITY	CONCEPT *	Sox x x x x x x x x x x x x x x x x x x
** ** ** **	necessarily need to be college ec	in that "team" do a	MAJOR AIM those involved
, and that all	fact that scientific research often depends upon teamwork,	students with the	; ;

be done either orally or in written form), (2) the extent to which the student is able to carry out his/her role in the

team research project, and (3) the extent to which the student is able to participate in the follow-up class discussion of the conclusions concerning the class project.

arriving at conclusions concerning the class project.

STRATEGY NUMBER თ

Continued

Science, Grades 3-5

NAME OF UNIT MAJOR AIM ž. **EVALUATION PROCEDURE:** OBJECTIVE To acquaint the students with the fact that scientific research often depends upon teamwork, and nvolved in that "team" do not necessarily need to be college educated. Can | Be a Scientist? See page 11. CONCEPT : Chemists: Obtain 3 quart jars of tap water. Pots 1,4 water and add liquid fertilizer; pots 2,5 water and add 1 tsp. epsom salts, I tsp. baking powder, and I tsp. ammonia; pots 3,6 water only. **Each day. the pots should be watered according to the direction: listed above. chance to grow. This discussion should rocus on the varying degrees of success with growing plants, given the different circumstances under which the experimentation allowed them to grow. The effects of fertilizing vs. non-fertilizing, natural sunlight vs. artificial indoor lighting vs. total darkness, etc. should be brought out. Biologists: Plant 18 seeds of any kind (fast growing) in 6 pots of coarse sand, and label the pots #1,2,3,4,5, and 6. Technicians: Keep an accurate account of the progress in growth of the plants - measuring them and recording the data. It is suggested that a class discussion be organized after the plants have had a character of the plants have had a character of the plants have had a Physicists: Prepare a place for growing the plants, providing different types and amounts of light. (Pots 1, 2, 3 should be left in sunlight, as your control" Question: eam Research Project uestion: What happens to the growth of plants when certain conditions are changed? ×. * GIL:DE/SUBJECT ::-SUTGESTED ACTIVITY This discussion should focus on the * ų. * * * * ;; * RESOURCE * that ;; all those * 101

STRATEGY NUMBER

Science, Grades 3-5

exercise,

the

NAME OF UNIT Can I Be a Scientist? GRINDE/SUBJECT

ground (education and/or well-known scientist. This a group) a report on a Day," by presenting to participate in "Career specialized training) of report should include some The student should be able that scientist. information on the back-(either individually or in MAJOR AIM EVALUATION PROCEDURE: ķ OBJECTIVE * tudents should become more aware To become better acquainted with the careers of The evaluation of this activity would be based upon the material presented by the children on area of concentragrounds (education Depending on the are required. different backtific research, field of sciention within the training, etc.) COLICEPT ::of f * As a culminating activity for this unit, you may wish to organize a "Career Day" in which the children could participate. The children could work individually or in groups, and select a scientist that interests them. They would then research this scientist and present a report, giving information comments, working conditions, etc. of the scientist of their chair. (particularly applicable for shy students, who have a contribution to make, but may be reluctant to get up in front of a group).

3. Play presentation—this could take the form of dramatizing the clientist's moment of discovery, or, perhaps, an average day in the life of that scientist.

4. A mock intervies—in this choice the students could present a dramatization of a talk show or news the These presentations could take the form of:

1. Oral presentations—with or without visual aids
1. Oral presentations—with or without visual aids
2. It the fallow together by the student(s).
2. Taped presentations—with or without visual aids show interview with the scientist of their choice. (They might also be encouraged to dress like the scientist — depending upon when he/she lived.) You may wish to consider allowing the children to present their "reports" in an assembly-type format, inviting other classes, the entire school, and/or. their choice. perhaps parents as well. ***Attached is a partial listing of scientists which may help your students to make their choices. It is also suggested that the choices for the manner of presentation be listed some where so the children can consult that listing. backgrounds needed for the different occupational roles. ķ **,** some of the well-known scientists; through this ٠, SUGGESTED ACTIVITY * **,**, * ÷. *;-* ;;-* ;; . A teacher-prepared choices for the A teacher-prepared scientist to be studie listing of possible choices for the method the report (see #1-4) of proportion listing of possible Library books, (see attached sheet). encyclopedias, RESOURCE textbooks * the ;-

different var i ous to check accuracy. You may wish to have the children hand in a rough draft of their presentations, so that you will s the major aim It also should be remembered that, since becoming aware of the backgrounds needed by 앜 this strategy, the children's reports should include th is information ab

Galileo

Nicolaus Copernicus

Michael Faraday

Charles Drew

Louis Agassiz

Conrad Lorenz

Niels Bohr

Robert Goddard

Isaac Newton

Luigi Galvani

Louis Leakey

Marie and Pierre Curie

Albert Einstein

Alessandro Volta

James Chadwick

Dimitri Mendeleyev

Gregor Mendel



CAREER EDUCATION TEACHER'S GUIDE

Grades 3 - 5

CAREERS IN EARTH SCIENCE

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Rockland County Career Education Program Dr. Laurence Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refecused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Suides.

Part cular mention should be made of those teachers who originally developed the premise for this Guide.

Sheila Abrams - East Ramapo Kathleen Bristol - South Orangetown D. Anne Nash - Nyack



INTRODUCTION

This Career Education Guide is designed to be used in conjunction with existing units, such as Rocks & Minerals and will require approximately two weeks. The primary purpose of this guide is to acquaint the students with some of the careers associated with the Earth Science field. This objective is accomplished by providing opportunities for the students to participate in an archeological dig and fossil-making activities---performing the occupational roles of the scientists and technicians connected with these scientific fields. Another purpose of this guide is to have the students become aware of the fact that organized, cooperative teamwork is essential to the success of most undertakings in this field.

If field trips are available to you, you may wish to plan a class trip to the Museum of Natural History, since these would serve as a perfect culminating activity for this guide.



GRUDE/SUBJECT

- Science, Grades 3-5

NAME OF UNIT Careers in Earth Science MAJOR AIM To familiarize the students with the occupational roles of archaeologists, geologists, and paleontologists.

EVALUATION PROCEDURE: The		a paleontologist	an archaeologist a geologist	upa-	OBJECTIVE	** * * * * * *
evaluation for this			geologists, and paleontologists.	out the past rough the work of chaeologists,	We have learned	* * * *
strategy will be based on the accuracy of the information	This should lead into a question concerning the occupational roles of these scientists. You may wish to view the film listed under "Resource" at this point. You may also wish to have the students, either inthese occupational roles; or, you may wish to provide the information yourself (see attached sheet). If the research was done by the students, you may wish to have them report their findings to the class; or, you may wish to have them submit their findings to you may wish to have them submit their findings to you may wish to have them submit their findings to you in written form for evaluation.	know this? (1. How long do you think man has been on the earth: (man, as we know him, dates back 40,000 years; men-like creatures date back up to 2 million yrs.)	the necessary in the teacher).	This activity is primarily designed as a class discus-	* * * * * * * * * * * * * * *
on given by the	Encyclopedia of Science	What They Do, Braidwood, Robert J.	Books: Archaeologists and	(13 min. C) BOCES film library	Film:	RESOURCE

students, either orally or in written form.

TEACHER INFORMATION

Archaeology The science of the study of the remains of prehistoric people.

Archaeologists dig in the ruins of ancient cities or in the lands where people lived long ago. They try to find things that will tell us how people lived in the days before written history began.

Geology The branch of science that deals with the earth.

Geologists work with rocks and minerals.

Paleontologists study, identify and date fossils.



109

Science, Grades 3-5

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NAME OF UNIT Careers in Earth Science MAJOR AIM To examine the career of "Louis Leakey," a famous paleontologist

This positive is primarily design d to be in students Film: "Dr. Leakey		e student should be able Louis Leakey's recognize the relationships of his interest, atti- the Dawn of Man'i	major ac- personal character tude, aptitudes, etc. to the realization of his leakey listics enabled him career goals, by examining attributes of Louis Leakey	He should be able to associate Dr. Leakey's name with the term 'paleontology''.	a she co	personal character istics enabled him to carry out his life's work as a paleontologist. Ine student should	recognize the relationships of his interest, attitude, aptitudes, etc. to the realization of his career goals, by examining attributes of Louis Leakey. Teacher introduces the name of "Louis Leakey" (you could begin by reading poem, see attached), then ask, "Can you guess what Louis Leakey's occupation was?" If the term paleontologist doesn't evolve, students could use encyclopedias or go to library to learn about his life and work. This could be done as a group discussion should followelicit a discussion of personality and characteristics, etc. See attached sheet for information. You may also wish to include in this activity, the viewing of the film 'Dr. Leakey and the Dawn of Man," and fossil transparencies.	the Dawn of Man" (Teacher source) Ssil Transparanci (Milliken Publishi Coalso availab from E. Ram. Bool Depository) ook: The Early Da of Man, by Roy E. Burell
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CAN YOU DIG IT?

Louis Leakey - what a man!

Spent many years digging in dirt and sand.

He traveled here, he traveled there-
Trying to discover exactly where,

Early man had lived.

He and his helpers worked for many years,

Exploring jungles in Africa without any fears

Then one happy day they found skulls and bones of apes and men!

They did not only learn where man first lived--they also found out "when"!

By: D. Anne Nash Nyack School District



TEACHER RESOURCE OUTLINE

Louis Seymour Bazett Leakey (1903-1972) British archaeologist, paleontologist and anthropologist

Spent most of his life in pursuit of evidence of early man

Born: Kikuyu village of Kabete, near Nairobi, Kenya, August 7, 1903, son of British missionaries. Grew up with Kikuyu youths. Received PhD. degree from

Cambridge University England.

Died: London, England, October 1, 1972

1924: Took part in British Museum archaeological expedition to Tanganyika (now Tanzania). He became convinced that man's origins were to be found in Africa, not Asia where scientists were concentrating since the discovery of Peking and Java man there. Continued leading expeditions to East Africa 'til 1931.

1931: Leakey explored the Olduval Gorge, where he discovered fossil remains of many kinds of extinct animal life, including some early forerunners of man. He remained there, with his wife and helpers, until in 1959, his expedition found remains of a skull of a human-like creature estimated to have lived some 1,750,000 years ago. This preman was called Zinjanthropus.

Later discoveries included the remains of Homo-habilis, an early tool making man, and Kenyapithecus, a link between the ape and man.

1967: Leakey concluded that the family of man is nearly 20 million years old, and that means evolution went along with other related species, but many other scientists do not agree with this theory and there has been much controversy.

His wife, Mary, and his son, Richard, accompanied him in expeditions and are continuing the work he felt was unfinished. Mary found the first skull (Zinjanthropus) and Richard has since found a skull and bones that may be 2.6 million years old. It was found near Lake Rudolf, Kenya, and is the oldest human fossil known. He also recently found boy's footprint (lower paleolithic era) preserved in ancient lacustrine silts (500,000 years old).

During World War II, Louis Leakey worked for British military intelligence, and from 1945 to 1961, was the chief curator of Nairobi's Coryndon Memorial Museum. His works include Adam's Ancestors (1934), Olduval Gorge, 1951, 1965, and a grammer of the Kikuyu language.

The Americana Annual, 1973 Americana Corp. U.S.A.



NAME OF UNIT

Careers in Earth Science

To have the children gain a better understanding of the work of a paleontologist.

	done either orally or in written form)	/This may be	EVACOALION
of the 3 ways in	be based upon the accuracy of the students' descriptions of	The evaluation will	PROCEDURE:
	types at once. Each types at once. Each type ast method can be diffic may wish to emphasize to of prehistoric life.		
	cribed in the following its delivered of fossil-mak- find it easier if she did only one type of fossil-mak- ing activity at a time. She may wish to divide the class into groups to make each fossil type together.		
113	these types of fossils on the Tollowing day; here them bring in at least two items of hard, simple shapes such as sea shells, plastic animals and a small shapes such as sea shells, plastic animals and a small empty pager lewelry box and/or small aluminum or paper blate, ine teacher should have the mould		
	These types of fossils are called imbedded fossils. The teacher will suggest that the students will make		
St. Louis,	ecting animals ecting animals		
Fossils, Milliker.	one ever heard of amber? A		
Bool Arcl	a Brea Tar Pits in Los / some inimals fell into which later hardened, bo		
East Ram. Cent. S. [o rock leaving raised o		
Transparancies:	 Founc by splitting e footprint was left ed it up with layers 		
p. 188, Scott Foresman & Co.	t, which over thousands of	what has happened in the past.	
Open Highways, 5,	Teacher Info: Sometimes a plant or animal Tell Into sediment, mud or dirt, covered by more sediment and as	learned much about	pale
(Library)	prints, of shells, leaves, and s		the work of
Dinosours, Random House, N. Y. 1959	After examining the fossils the teacher may ask the group to discuss and give their ideas on how these	and of	ch fossils were formed
the Days of the	Contailling		The students shall be able
P :	av previous to this ac	CONCEPT	OBJECTIVE
RESOURCE	ED ACTIVITY	* * * * * *	<u> </u>
* * * * * * * * * * * * * * * * * * *			MAJOR AIM

which fossils were formed.

(This may be done either orally or in written form)

GRADE/SUBJECT Science 3-5

<u> To have the student make an imitation fossil as a replica of those found by Paleontologists:</u>

The student shall be able to construct an artificial fossil, using one of the three techniques that a paleontologist would use.	OBJECTIVE I	· · · · · · · · · · · · · · · · · · ·
By studying fossils and other evidence of the history of the earth's surface paleontologists have taught us much about what has happered in the past.	CONCEPT	* * * * * * * * * *
By studying fossils The teacher may wish to ask the class about the work and other evidence of scientists who work with fossils and find out if the history of they recall the different types of fossils, as a brief review. She may then ask the class to show their "pretend artifacts" and decide which types of fossils have taught us much about what has happened in the past. The teacher may wish to ask the class about the work with fossils, as a brieferent types of fossils and find out if they work with fossils, as a brieferent types of fossils, a	SUGGESTED ACTIVITY	* * * * * * * * * *
See materials listed under suggested activity.	RESOURCE	* * * * * *

Pour into mold form, wait a few minutes until plaster begins to harden. Put object carefully into plaster, pushing down only up to its widest part. Let object set in plaster (about 10 minutes) and carefully pull it out. Teacher information: (Observation)

The shape of the fossil imprint is left in the plaster. Paris into basin, add a little water, stir, continue slowly adding water and stirring until consistency of sour cream. Procedure: Rub a light coat of vaseline or oil around the inside edges and bottom of mold. Pour a cupful of plaster of small basin for mixing, small paper plates and empty jewelry boxes to use as mold form, and objects brought in for imprints (Students should bring in at least 2 items, such as sea shells, plastic animals, or any hard, simple shapes.

Teacher information: (Observation) (2) Problem: Making a fossil cast. (Conclusion)

(A more difficult process) We made an imitation of a fossil imprint.

with a thin coat of vaseline or oil, including the hollow in the surface, (too much can cause the cast to lose sharpness, Materials: You can use your imprint fossil, or make a new one as described in Problem #1. Cover the entire surface Same as problem #1

Prepare a cupful of plaster of Paris, pour into oiled plaster imprint, then let dry for an hour or more. too little can cause cast to break.) When dry lift

On the underside is a cast of the fossil imprint. We have made an imitation of a fossil cast.

Teacher information: (Observation) (Conclusion)

(3) Problem: Method #1 - Dead small, pretty colored insects, colorless nail polish, jar cover Imbedding fossils

mold, (can be paper jewelry box) insect or plant. Procedure: Method #1 Place insect on a hard surface like a jar cover. Drop a small amount of clear nail polish on it. Let dry a few minutes. Apply more coats until well covered. Method #2-Follow directions on can imbedding insect at half way level. Teacher information: (Observation) Left in plaster is an artificially imbedded fossil. (Conclusion) We made an imitation of an imbedded fossil as it can be found in amber. <u>As a follow up teacher may wish to point out how these fossils could keep a record of what happened on earth today.</u> Materials: Method #2 - Clear cast (or any kind of plastic mold material,) catalyst for clear cast, small rectangular

EVALUATION PROCEDURE: artificial tossils. Should focus around whether the students carefully followed the directions for preparing their

GRUDE/SUBJECT

Science 3-5

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NAME OF UNIT Careers in Earth Science To become familiar with the occupational roles of the following: surveyor, archaeologist, draftsman,

man, geologist, photograph paleontologist. occupational roles: surable to list the occupaveyor, archeologist, drafts photographer, and tional roles which compose to define the following (2) Student should be able (1) The students should be archeological dig team geologist, photographer, and paleontologist. following: surveyor which includes the man, geologist, to be formed archeologist, draft: ical dig is organ-When an archeologized, a team needs CONCEPT wish to continue a class discussion for the purpose site, Once this idea has been established, you may other artifacts) are found at an archeological dig which to introduce the fact that most of these (and strategy #3 and 4) this would be an ideal point at sils and their importance as a key to our past (see of determining the different occupational roles of Now that the students have become familiar with fosthe "team" which is assembled for an archeological dig (See attached sheet of teacher information of occuų,

pational roles) You may wish to use one of the folunder Suggested Activit archeological dig Materials needed for th Camera(s) ideally one for each RESOURCE

(1) Class discussion-with teacher guidance and input. (2) Student research individually, or in small groups. at definitions of the aforementioned roles:

lowing techniques in order to have the students arrive

er, and paleontologist.

be divided into teams (4 or 5 teams-depending on class size) and that each member choose (or be assigned) a different role: surveyor, archeologist, draftsman, geologist, photographer, and paleontologist. (If the numbers don't work out, you could Once the definitions have been arrived at, they should be written down either on the board, on chart paper, or in the students double up on one or more of these roles.) You may wish to spend a few minutes with each "team," making sure each student After all the definitions have been established, archeological "teams" should be formed. It is suggested that the class

newspapers, shovels or spades, sieves, old toothbrushes (for fine work), large cardboard boxes, stringed tags, and if the area is moddy, boots. (Every item listed is needed for each team.) understands his/her role. The final step would be to ask for the following equipment to be brought in to school the next day for the dig:

sections spaced far enough apart to allow teams to work free of interference.) Once the areas have been staked, the equipment for each occupational role. (Each team area should be marked off with string.) (It would be useful to have the (2) After site has been chosen, the students should map the area and mark off a section for each team to work in,using the

photographer will take pictures of each site.

EVALUATION PROCEDURE: The evaluation of this strategy would be determined by whether or not the students can list and define This could be done during a class discussion, or when talking with the separate

teams, one or individual basis, either orally, or in written formateams. the occupational roles as cnumerated above.

TEACHER INFORMATION

Surveyor: Measures and stakes out dig site.

<u>Prepares clear</u>, complete, and accurate drawings of the dig site. In addition, the draftsman marks on the drawing of the site the exact location of each artifact found.

Photographer: Keeps a photographic history of the dig. This should include "before" and "after" pictures, pictures of "important finds," plus a few "candid shots" of the work.

Archeologist, geologist and paleontologist: descriptions given in Strategy #1



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Science. 3-5

EVALUATION PROCEDURE:	•	The student should be able to perform the duties of a person in the occupational role of his choice: surveyor, photographer, or draftsman.	OBJECTIVE OBJECTIVE	OR AIM
The students justifi and staking of the c		The surveyor, photographer, and draftsman must all participate in, and cooperate, in order for an archaeological dig to be successful.	CONCEPT	the student wi
<pre>choice of site, (orally or in writing,) and a, will serve as an evaluation procedure.</pre>		The aim of this activity is to allow the students to utilize skills in the areas of art and math, and to better understand the importance of cooperative team work, especially in relation to an archaeological dig. (1) This activity should begin with the students choosing a site. You could have them justify reasons for their choice of the particular site, (eg. level ground, dense-not dense, signs of human life once being there, such as abandoned shack, faru, etc.)	SUGGESTE	th the occupational role of the surveyor, photographer, and draftsman, participating in an archaeological dig.
accuracy in mapping		See strategy #5	RESOURCE	nd draftsman.
	The students justification of choice of site, (orally or and staking of the chosen site, will serve as an evaluat	The students justification of choice of site, (orally or in writing,) and and staking of the chosen site, will serve as an evaluation procedure.	the surveyor, and to the photographer, and fraftsman must all participate in order for an archaeological dig. to be successfirm. The surveyor photographer, or fisman. The surveyor photographer, or all participate in order for an archaeological dig. to be successfirm all participate archaeological dig. the surveyor fisman. The surveyor photographer, or all participate in order for an archaeological dig. the successfirm after choosing a site. You could have them justify reasons for their choice of the particular site. (eg. level ground, dense-not dense, signs of human life once being there, such as abandoned shack, faru, etc.) The students better understand the importance of cooper activity should begin with the students reasons for their choice of the particular site. (eg. level ground, dense-not dense, signs of human life once being there, such as abandoned shack, faru, etc.) The students and math, and to better understand the importance of cooper activity should begin with the students it to allow the areas of art and math, and to better understand the importance of cooper activity should begin with the students (li). This activity should begin with the students (li). The students (li). This activity should begin with the students (li). The students (li). This activity should begin with the students (li). This activity should begin with the students (li). The students (li). The students are provided to an accuracy if should begin with the students (li). The students are provided to an archaeological dig. (li). The students are provided to an archaeological dig. (li). The students are provided to an archaeological dig. (li). The students are provided to an archaeological dig. (li). The students are provided to an archaeological dig. (li). The students are provided to an archaeological dig. (li). The studen	BUBLETIVE CONCEPT BUBLETIVE CONCEPT CONCEPT CONCEPT CONCEPT CONCEPT CONCEPT The surveyor, photographer, and draftsman must all participate in, order for an archaeological dig. (1) to be success- full, to be success- full, to be success- full, the conservation of the chosen site, whill serve as an evaluation procedure. ALUATION PROCEPURE: The surveyor, photographer, and ocoperate in, and cooperate ative team work, especially in relation to an archaeological dig. (1) This sactivity should begin with the students choosing a rite. You could have them justify reasons for their choice of the particular site, (eg, level ground, dense-not dense, signs of human life once being there, such as abandoned shack, farm, etc.) ALUATION PROCEPURE: The surveyor, to utilize stills in the areas of art and math, to utilize sto allow the students site ative team work, especially in relation to an archaeological dig. (1) This sactivity should begin with the students site, (eg, level ground, dense-not dense, signs of human life once being there, such as abandoned shack, farm, etc.) ALUATION PROCEPURE: The students lustification of choice of site (orally or in writing,) and accuracy in mapping and staking of the chosen site, will serve as an evaluation procedure.

STRATEGY NUMBER / GRADE/SUBJECT Science 3-5

NAME OF UNIT_ Careers in Earth Science

An archaeological dig with students fulfilling the required occupational roles.

EVALUATION PROCEDURE: No fo	The students should be able to participate in a simulated archaeologi- and cal dig. scie eff.	· · · · · · · · · · · · · · · · · · ·	MAJOR AIM An archaeological dig with
formal evaluation is	In order to succersfully carry out an archeolgical dig, a team of scientists needs to be assembled, and a cooperative effort must be made.	* * * * * *	stuc
necessary. The teacher should nowever, be aware or	utes) h to review the purpose of work of earth scientists and ast by a quick discussion;) ant knows his team, his b and its responsibilities, m before beginning. Stress appers to collectitems. Dig s area at a time. er photographs activities. ure that groups stay within and clean off each item anines site for stones, each find on map. Upon place in box, separate logist's job.) tually once the dig begins, ious to dig in and find to classroom. Photograph to classroom. Photograph	ED ACTIVITY	Tulfilling the required occupational locas.
` -	See materials strategy #5 118	RESOURCE	**

the individual students fulfill the requirements of their occupational roles. team work should be emphasized, and be clearly apparent within the teams. in addition, the importance of

GRYDE/SOBJECT Scientification

Science, 3-5

NAME OF UNIT Careers in Earth Science

To follow up the archaeological dig in such a way as to relate it to the careers of the earth scientist,

-			
	on their allotted site. (Do bring up the fact again, on their allotted site. (Do bring up the fact again, that L. Leakey spent 28 years digging on his gorge without a significant find to back up his theory.) Also encourage the discussion to bring out how well working as ateam brought success. (4) As a culminating activity you may wish to have the photographer photograph the displays and have the class set up a museum-like display (in media center, etc.) for rest of school to examine. This involves descriptive cards as well as theories.		•
119	(2) The teacher may ask the class as a whole to a theory about what was found and how it relates to the history of the area. Local historians, or persons living in the area might be invited to verify findings, or add to your knowledge. Such an interview might be video-taped. (3) The group may wish to discuss the joy of finding the fructions of not finding anything.		
Rockland Historical Society "South of Line Hount Line" (publication)	W U ~ = 5	order to summarize their findings and prepare an accurate report.	class as a whole.
Local Historians, or persons.	artifacts (treasures) in. Each team spreads of grouping by layers,	the scientists must be able to work as a team in	their findings as a result of the archaeo-logical dig, and report these findings to the
Finkelstein Memorial Library - Human Re- source file.	Follow up to archaeological dig: Suggestions you may wish to use. (1) The teacher suggests that each team takes its box	다	The students should be able to summarize
2		CONCEPT I	** * * * * *
* * *	history.	of such digs to	and pertinence
		to tollow up the atchaeological a	MA JOR A IM

EVALUATION PROCEDURE: The evaluation of this activity would be determined by the feasibility of the teams

theories as to previous use of the area involved, as well as the accuracy of, and understanding shown

through their report.

CAREER EDUCATION TEACHER'S GUIDE

Grades 4
Social Studies

LIFE AND WORK IN EARLY AMERICA

Copyright: Board of Cooperative Educational Services Rockland County, New York 1973, 1974

Rcckland County Career Education Program Dr. Laurence W. Aronstein, Coordinator Rcckland County BOCES West Nyack, New York 10994



PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

Particular mention should be made of those teachers who originally developed the premise for this Guide.

Evelyn Cohen-Nanuet
Loretta DeBerardinis-Nyack
Eileen Goldblatt-Ramapo
Gertrude Itkin-Ramapo
Mary-Ethel Kearney-Clarkstown
Nickolas Kelepis-Nanuet
Vincent Mahon-East Ramapo
Earl Mullen-Haverstraw-Stony Point
Donna Schwartz-East Ramapo

Acknowledgment should also be given to those teachers who rewrote and reinterpreted those Guides into the present form presented here.

Gertrude Itkin-Ramapo Judith Lewin-East Ramapo Anne Nash-Nyack



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GRALE/SUB JECT 4th Grade--Social Studies

lajor Aim To develop an appreciation of human adaptation to a changed environment. NAME OF UNIT Life and Work in Early America

Life in Colonial U. S. 1700-1800, Life in United States Today Have children contribute pictures, articles, original reports for a collage in each area on a contributing basis throughout the unit.	
large sheets of octag or 3 large bulletin	The students will be able to There we develop a time line depict- progressing the general changes in changes
CONCEPT SUGGESTED ACTIVITY RESOURCE	<u> </u>
1	* * * * *

Major Aim_ To develop an appreciation of human adaptation to a changed environment. NAME OF UNIT __ Life and Work in Early America GRALE/SUBJECT 4th Grade Social Studies

			•
	for meaningful statements	Check letters	EVALUATION PROCEDURE:
			·
124		escape dead end of class struc-ture.	
L	time line collage collections.	own way d) Socialto	
·	The group letter voted best by the class should be	c) Religious- Freedom to wor-	
Books #1, 2, 4	the new world to explain why they feel the need to go. Have them describe their occupations and family life in	b) Political- escape tyranny	
İS	and reading background materials, have each group compose a letter to the owner of the ship leaving for	Hope for free land; over-	coming to the new world
Film: Why the New	general reasons for emigration, i.e., eco political, religious, social. After view	many reasons: a) Economic	the early settlers had for
# Refer to Bibliography	Divide class into four groups accord	People came to the new land for	The child will be able to
RESOURCE	SUGGESTED ACTIVITY	CONCEPT	1
* * * * * * * *	*****	* * * * * * *	* * * * * * * * * * *

Hajor Aim_ NAME OF UNIT _____ Life and Work in Early America STRATEGY NUMBER ____ To create an awareness of the interdepender e among all individuals in the home and community GRALE/SUBJECT 4th Grade Social Studies

in class cooperation.	continuing basis and	EVALUATION PROCEDURE: Elect a committee	The student will be able to identify the positive and negative aspects of individual cooperation in a community effort. 1) Early settlers had to cooperate to survive in an alien land. 2) The Jamestown Colony in 1607 broke down for lack of cooperation and organization. 3) The Plymouth Colony was successful because of communal effort
tion.	and have class discuss the positive and negative aspects of	tee to observe cooperative efforts in regular classroom activities	SUGESTED ACTIVITY 1) Observe filmstrips of each colony and discuss elements of interdependence in each. 2) Have children list former occupations of settlers of Jamestown and each choose one of those occupations as his own background. As new settlers, have them write community effort. 3) Announce a class project—making "Jonnycake" as the settlers did. Specify what part each student will play organi— in preparation. Offer to bring the cornmeal. On day of project, on nounce that you work etc. After the class appears to understand how one person's carelessness can cause project to fail, all of the cornmeal and continue project.
	each breakdown	vities on a	RESOURCE RESOURCE I) Books #3 for background as Filmstrip for: le Jamestown #48 Plymoutn #49, 50 play ay a

GRALF/SUBJECT 4th Grade Social Studies

Major Aim To establish that courage, self-reliance and resourcefulness were qualities of most of the Pioneer men, STRATEGY NUMBER

	onial days.	they did related to what was done in colonial days.
discuss how the things	List the names on the board and	for projects and self-reliance and courage in their use.
appropriate materials	children identify those students who showed resourcefulness in finding a	EVALUATION PROCEDURE: Have children identify
126		
Discovery Available from social studies school service		own imagination for games and sports
Teacher Music Teacher, Parents		3) Children relied on their
Physical Education		soap and candles,
Books #8 for games		weave cloth, make
Rockland Regional Cente		ingredients, make
For class trip see:	3) Discover recipes for f	foods with alien
coping with life	sampler, make candles or soap and make a hornbook.	2) Women and girly
m	Philipsburg Manor or the museum of the City of New You	settlers' approach to
	activities could be culmination of class trip to	iness
a Book #4 for recipe for	Fine detail could include furniture, grease-paper	identify courage, self-
	 Construct pioneer house from available materials. 	ctudent will be able to
RESOURCE	SUGGESTED ACTIVITY	OBJECTIVE CONCEPT
* * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
		women and children

NAME OF UNIT Life and Work in Early America STRATEGY NUMBER

ഗ

Major Aim To establish the nature of the careers of the majority of settlers in the colonies GRALE/SUBJECT 4th Grade Social Studies

EVALUATION PROCEDURE: * worker today with that of compare the occupational to specialization. life style of the ordinary The student will be able to the colonials in relation × OBJECTIVE * colonial's day on one board and activities of an ordinary person today on the other. * Establish two sections of blackboard. others for his and relies on specialized job likely works at a worker today most supply most of his common man had to The ordinary own needs. The colonial needs. CONCEPT **;**; all students in class are engaged in lake a poll of the kinds of activities parents of A) during working hoursB) to satisfy family rec Show Film: * to satisfy family requirements of food, clothing, e.5. What part does mother play in producing shelter, recreation, and transportation. * SUGGESTED ACTIVITY *ነ*ት አት clothing? Father in producing food and shelter? In You Lived Then * Have children take turns listing common activities of ķ * * *);- * * * ፠ * :: * Film available from BOCES Film library **Parents** RESGURCE * ;ţ-× 127

| MILITARY OFFICER 1 GENERAL WASHINGTON | CONER SIDE 1 Sucyetor 1 How To Jack Fill 3 COSAB. 29Alc: 1813 SCRIFEN pici 1776-1976 STATUE Famous 70 (MEDERN) Exemer? THOMBS REPRESENT. SQUARES MARKED APCHITECT Weize A IB 1-34 may INTERIOR DETORATOR NOTURIUNI COUNTERPART, C AND A COLONIAL PURSUING THE SCREEN DEPICTING MULTHFACETED CAREERS STRATEGY P AND MAY WE KEPT FOR BICENTERNIAL CELEBRATION promot FOUNDING FATHERS TO BE CONSTRUCTED III BENJAMIN FEANKLIN III ILLE DO GE LE DO GE LE I ROINTEIC of madi INVENTIC 11A1·1B) 当となる TOWN-DAMNER TOURNALIST BECOME 1. 1. ARE RESERVED FOR COLLECTED PICTURES OF MASKING TAPE APPLIED VERTICALLY BACK AND THE APPROPRIATE CAREER, D FOR A MODERN FROST FOR 10 Bocket STA NERSHITH MARTIST. [i] TEWELER BUL 12) STUDENT- WRITIEN PARAGRAPHS JENERE POCKETS ARE MCT Layson PROFESSIONAL STUTTEN (S) HALEXANDER HAMILTON ! SUBLETAS III SANKER MERCHANT 回風 9 FOR 1 Pocket ERIC 128

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NAME OF UNIT _______ STRATEGY NUMBER ____

GRALE/SUBJECT 4th Grade Social Studies

ajor Aim To demonstrate that various careers followed by the Founding Fathers still exist, but in forms which are

as they discover them through resources to be colonial activities in juxtaposition to descriptive activities to the right of similar colonial occupations. At the base of each screen panel, place a pocket for job descriptions collected from companies or copied from Career Occupational Outlook Handbook 2) Obtain permission from local professionals and workers occupied in careers similar to those of the Median County of the Median Careers of the Median Careers of the Median Careers occupations. Have child armed with school
e om otturer

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- 53 <u>Cooking in Colonial Days</u>, see #51
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CAREER EDUCATION TEACHER'S GUIDE

Grades 4 - 5 Social Studies

EXPLORERS -- AN INTRODUCTION

Copy ight: Board of Cooperative Educational Services Rockland County, New York 1974

Rockland County Career Education Program Dr. Laurence Aronstein, Coordinator Rockland County BOCES West Nyack, New York 10994



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Nicholas Kelepis

Nanuet

Gertrude Itkin

East Ramapo



EXPLORERS--AN INTRODUCTION

This guide is intended as an introduction to the study of the lives of the early explorers. The activities suggested are planned to lead the pupils into discovery of their own potential as explorers in the larger sense and of the consequences of such activity upon themselves, upon their immediate community, and upon society as a whole.

As suggested in the latter strategies, the teacher can relate this material to the explorers and inventors studied throughout the school year in grades four and five.

The material is intended to be flexible and easily adapted to the interests and needs of the pupils in your class. Activities and resources may benefit from deletions or additions to suit those needs. Care should be taken that emphasis remain on career awareness, self-awareness, decision making skills and attitudes toward the world of work.



IDE/SUBJECT

7 4-5 Social Studies

NAME OF UNIT Explorers -- An Introduction MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils

	of simple curiosity.	EVALUATION PROCEDURE:	OBJECTIVE OBJECTIVE The child will be able to identify his own need to explore his environment.	
pi illatota citata cit	plindfold children and	Have children list	CONCEPT People explore because they are curious about their environment.	
The others must explain who	introduce mystery box into which each child must	ten ways in which he has explored his environment in h	SUGGESTED ACTIVITY Brainstorming: A. Ask pupils to think back to things they did before they were of school age, what did they explore on their own (1) in the home (2) on the street (3) in the neighborhood. B. Elicit variety of responses and list on blackboard. C. Discuss what motivated them to do this exploration. Iintroduce a closed but attractive box of interesting material into the classroom without comment. Leave it there until time for discussion. Have class respond to "who looked into box?" "What did they see?" "Why did some people not look into box?"	
•	feel for items to	his lifetime out	* * * * * * RESOURCE Select film or part of motion picture showing child exploring environment. Home movies might be useful and short enough. Found materials 26	

ERIC Full Text Provided by ERIC

identify.

Only those wishing to do so will participate.

The others must explain why they did not.

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NAME OF UNIT Explorers -- An Introduction MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils

EVALUATION PROCEDURE: C	OBJECTIVE Children should be able to identify reasons for obtaining material things.
Children list reasons	CONCEPT CONCEPT People explore be- cause they need something or are greedy for more.
list reasons why the group in the above activity obtained or did no	Set up a task for a group or a single child wherehy a class need is fulfilled by the groups exploration and the group is further led to acquire excess fulfillment of need through greed. For example, send group for colored construction paper with specific number of sheets in mind. Leave it up to them to formulate plan of action. Set up with other teachers and art department so that exact requirements can be chtained in one place but much in excess can be found elsewhere. Discussion in class of actions taken and reasons for actions.
not obtain the	* * * * * * * * * * * * * * * * * * *

	STRATEGY
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MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils	NAME OF UNIT ExplorersAn Introduction GRADE/SUBJECT 4-5 Social Studies

	EVALUATION PROCEDURE:		Children will be able to list many occupations which require a love of adventure.	
references.	Have each child name		People explore be- cause they love adventure.	* * * * * *
	the occupations required for a specific explorers adventure using	ts show (a) pre- b) global map in relation hildren how many would ex- lid choose to go to the. lit from students and its in from students and its in for one at a time under afterward and discuss ference to the experience. The prome at a time under afterward and discuss ference to the experience or unknown shore with strange unknown shore with strange	mountain climber, airplane pilot, etc. Quiz master ask each one questions leading to their confessions of love of adventure.	Make up questions for a quiz show. Have each child
	nture using	Also: Encyclopedias See diagram suggested as sampie	Names in American History by Eibling, King, Harlow, Laidlow, 1965 for early maps	* * * * * * RESOURCE See Chapter I, Great

STRATEGY NUMBER_

GILLADE/SUBJECT

4-5 Social Studies

NAME OF UNIT Explorers -- An Introduction MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils

EVALUATION PROCEDURE: Pupils will a	Pupils will be able to discriminate between and identify positive and the negative aspects of influencing others.	OBJECTIVE	* * * * * * *
Pupils will search on natives and those t	Some people explore to teach others their religion and customs.	CONCEPT	* * * * * *
search out materials on Spanish and French missions and itemize those that were harmful to the original culture.	the cen us tongs from the constant tongs are not on y tong	SUGGESTED ACTIVITY	1 46 1
the things they		RESOURCE	*

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STRATESY NUMBER GRADE/SUBJECT

NAME OF UNIT Explorers -- An introduction

4-5 Social Studies

MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils

EVALUATION PROCEDURE:	Pupils should be able to select specific instances in the American background where one explorer's discovery led to many more.	OR IFCTIVE	
Encourage children to be	One expl discover further	CONCEPT	١
o be a guest speaker after doing research on an explorer. They could be a guest speaker after doing research on an explorer.	incentives such as paper covered candies. As soon as one is discovered, have children leave room for some other activity. Upon return, observe behavior of pupils in searching out the remainder of rewards. Discuss thought processes of each person who continued search. 2. Coordinate research work with school librarian. Divide class into small groups. Each group selects one explorer to be studied in grade 4. Pupils are given specific questions to answer. What did he explore? Who did he come after? How was his exploration dependent on a prior discusse these on the adventures of the early explorers. Discuss phrase "One picture is worth a thousand words."		* * * * * * * * * * * * * * *
	Library	RESOURCE	* * *
either Teacher			×
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will observe pupil's responses. pretend to be the explorer and tell about themselves or simply answer the question he answered in his research.

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STRATEGY NUMBER

GR.:DE/SUBJECT

4-5 Social Studies

NAME OF UNIT Explorers -- An introduction To compare the motivations of the explorers of early America with those of present day pupils

MAJOR AIM

Pupils would be able a strong motivating factor in early exploration. identify competition as ř EVALUATION PROCEDURE: * increases as one approaches the achievement of the goal. OBJECTIVE ;; * * * * Using treasure hunt as the basis of discussion, elicit from pupils idea that competitive feeling ploration. Important factor Competition is an in motivating ex-* * CONCEPT * * * class out to playground. Hide written clues in Divide class into groups of 4-6 members. Treasure hunt: finds the Treasure Chest and keeps the treasure. covered coins. Group following clues correctly chest is buried in playground and contains chocolate tributed in an area of the playground. Treasure match boxes (6-10 messages) which have been dis-* * * * SUGGESTED ACTIVITY * ۲ ۲ * ١. * * Bring * * * by pupils Materials brought in RESOURCE * * × * 143

STRATEGY NUMBER GRADE/SUBJECT

- 4-5 Social Studies

NAME OF UNIT Explorers -- An Introduction

To compare the motivations of the explorers of early America with those of present day pupils

EVALUATION PROCEDURE: Role play: Children choose the		material reward as a strong motivating factor in early exploration.	Pupils would be able to identify competition for	OBJECTIVE OBJECTIVE	IM To compare
Role play: Children			People compete for material things	CONCEPT	3 motivations of
Children choose the same team all the time making the teams uneven.	task first is the winner and receives candy, baseball cards, or other material reward. Discuss implications when back in the classroom and cite examples of competitive behavior in the history of exploration	Bring class onto playground. Pupils each get one balloon and blow it up. At a pupils each get one balloon and blow it up. At a given signal three pupils at one time run to bench and sit on their balloons and break them. Then they and sit on their balloons and break them. Then they are back and touch the hand of their own team members run back and touch the hand of their own team members the who repeat this process. The team who completes the	Competition game:	SUGGES	* * * * * * * * * * * * * * * * * * *
en. Through				RESOURCE	
	144				

in their own favor when competing.

Pupils will be able to document their own worth on a competitive basis. EVALUATION PROCEDURE: Pupils read their propression and the reader having left the reader having left the reader having left the reader having left the	the explorers of early America with those of present day pupils * * * * * * * * * * * * * * * * * * *	145
AME OF UNIT Explorers An Introduction	300.0	
	•	
	4-5 Social Studies	•
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	4.5 Social Studies	
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	ownloans of parly America with those of present	
To compare the motivations of	explorers of early America with those of present	
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	* * * * * * * * * * * * * * * * * * * *	
* * * * * * * * * *	7. H 7. 7. 7.	
	ACTIVITY	
	76-14-1	
	Have pubils imagine they are planning to	
Will be able to reoble compete	Track Company and Track Company	
the troops of the there	vovage of discovery but need financing.	
Their own just their		
	write a convincing proposal that would encourage	•
a competitive	COLLA LICELIA DE OPOSICE COLLA	
the state of the s	or a first to receive the vovene	
	בה אלינומהו ביום אהלמאני	
	Ithe tollowing questions:	
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	How would you obtain the	
	110M MOUTA 700 00 00 00 00 00 00 00 00 00 00 00 00	
	Your trip?	
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	n il to after each proposal	
	to the entire class. Publis Will Vote alter each proposar	
read their	נט נוופ פוונוופ כומססי ישריים	
	Child with most votes and most convincing proposal is the	•
Taylor left	room). Child With most votes and most convincing Free	
The reader maying icit		

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NAME OF UNIT

Explorers--An Introduction

GR.:DE/SUBJECT 4-5 Social Studies

	EVALUATION PROCEDURE: Develop a bulletin board with the pupils using their independent research work the rewards and recognition each explorer earned.		MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils will be able to enumerate specific ways in which the immediate or local community recognized the explorers. MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils early America with those of present day pupils. RES SUGGESTED ACTIVITY RES SUGGESTED ACTIVITY RES SUGGESTED ACTIVITY School and recognition, approval and rewards that explorer received from his country and the world as a result of his exploration.
	work which pinpoints		* * * * * * * RESOURCE School Library Media Center
1 1		146	1111

STRATEGY NUMBER GRADE/SUBJECT

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4-5 Social Studies

NAME OF UNIT Explorers -- An Introduction MAJOR AIM To compare the motivations of the explorers of early America with those of present day pupils

accomplish, rewards	recorder, report ba	EVALUATION PROCEDURE:	7,000,000	OBJECTIVE student will be emonstrate that tiveness increatatus is advance	·	
s they hope to achieve	2. Have a pupil role back to "Eyewitness News"	n back	invite other	CONCEPT People compete to advance personal status.	* * * * * *	
and problems encountered on board.	play the part of a television reporter on board ship detailing the feelings of the crew, their roles on the	winners.	members of the grade level to see posters and ads. Have th		ACTIVITY	÷
	ship, jobs they		them select three		RESOURCE	* * * *
				147	į	

4-5 Social Studies

NAME OF UNIT Explorers -- An introduction MAJOR AIM To identify the circumstances that existed which motivated the discovery and exploration of America STRATEGY NUMBER GRADE/SUBJECT

EVALUATION PROCEDURE: Columbus based his	time of Columbus and how was flat- this motivated explora- tion.	3	OBJECTIVE * * *
TON PROCEDURE: Using texts and encyclop Columbus based his theory of exploration.	was flat.	Most people before Columbus' time	* * * * * *
edias, have pupils write a list of known facts and	tube maps. Illustrate why Columbus be- build reach the East Indies by sailing ckboard an example of an optical illusion similar lines pointing in opposite directions. Ask out measuring, which line is the longest. al of majority vote. Have minority prove ntion if they will. Show flatness of carpenter's level. Demonstrate why world.	world map on a fla in Columbus' time same size paper as that left and righ	* * * * * * * * * * * * * * * * * * *
ideas upon which		dias and duplicated map of exploration in	* * * * * * RESOURCE Old maps in encyclope-

4-5 Social Studies

NAME OF UNIT Explorers -- An introduction MAJOR AIM To Identify the circumstances that existed which motivated the discovery and exploration of America STRATEGY NUMBER GIVIDE/SUBJECT

preserved with lemon juice.		EVALUATION PROCEDURE:					** * * * * * * * * * * * * * * * * * *
Julce:	food that spoils	Divide children into		,	•		CONCEPT Food preservation was a problem be- cause of lack of refrigeration.
	can be preserved without refrigeration. e.g. apple tha	small groups charging them with respons					SUGGESTED ACTIVITY Try to arrange a trip to Philipsburg Manor in Tarrytown, New York. If school does not underwrite field trip expenses approach Parent-Teacher Club or other local organizations for financial backing. Children may be able to produce crafts to sell, or run rummage or cake sale. At Philipsburg Manor ways of preserving food in the seventeenth and eighteenth centuries is demonstrated. Exhibition: Have children list spices used in their homes. Have pupils learn which spices are used in cooking different foods. They can bring in spices. Label and exhibit them with legend of use. Invite other grades to visit.
	e.q. apple that is cut can be	onstrate WITO	000+00+0 With			149	* * * * * * RESOURCE Administration, Parent-teacher clubs, pupils. Philipsburg Manor, Tarrytown, New York (contact for latest rules and regulations)

STRATEGY NUMBER GIL, DE/SUBJECT

4-5 Social Studies

NAME OF UNIT Explorers-An introduction MAJOR AIM To identify the circumstances that existed which motivated the discovery and exploration of America

EVALUATION PROCEDURE: Dis	Children will infer from their own dramatization that countries competed for the wealth of new areas.	75
Discussion of drama outes to old markets.	Countries were competing for trade as a source of wealth in the 15th and 16th centuries.	CONCEPT
to elicit inferences pertaining to	l and business activities hants to acquire great itional profits by investing (New Book of Knowledge) y having pupils role play. hree act play for possible ool or grade level. ds from Far East sell to ing them why they are so ps of travel, loss of ships, accumulating more profits. other countries for trade, explorers sell merchants on voyages to open new markets	* * * * * * * * * * * * * * * * * * *
the competition of countries for new	discover which countries competed for new markets and which explorers obtained backing of wealthy merchants, etc.	* * * * * * RESOURCE

<u></u>

ExplorersAn introduction identify the circumstances th * * * * * * * * * CONCEPT	OF UNIT Explorers—An Introduction R AIM To identify the circumstances that existed which motivated the discovery and exploration of America RAIM To identify the circumstances that existed which motivated the discovery and exploration of America A * * * * * * * * * * * * * * * * * *
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STRATEGY NUMBER 14
GRADE/SUBJECT

4-5 Social Studies

NAME OF UNIT EXPIORERS An	ExplorersAn introduction	GK: DE/SUBJECT	
o compare	motivations of the ex	the motivations of the explorers of early America with those of present day pupils	oils
			* * * * *
** * * * * * * *	CONCEPT 1		RESOURCE
			A. Models borrowed
The children demonstrate	٠ ا	e.g., one pupil with compass reaches a designated	from district.
that inventions and dis-		goal in competition with one without; pupils make	
coveries accelerate the	press rudder and	small sailing ship models, one with rudder, one with-	B. Local newspapers
accompaisment of cases	<u> </u>	out, and compete for designated goal in a flat pan of	
Such as exploration.	explorers to venture	explorers to venture water; one pupil with rubber stamp with three line	in class
	10.	same message ten times against time.	
		; arrange a trip to l	
		press (e.g. our lown, tel. No. /33=/0/0, colleact Mr. Arthur Aldrich.	
	(m	arents o	
	~ ~	work in areas that utilize tiese inventions who are	
			52
		1	
EVALUATION PROCEDURE: 1	After observing results	s of said experiments and the uses of	result of these discoveries
sources people, have	people, have pupils list ten ways	in which tasks were accelerated as a lesuit of clase	413COACT 163.

Bibliography of Books, Filmstrips, Films, Transparancies, Games, Newspaper Articles

Books

The following is a broad list of suggested readings that may be available in your own school or public library. They vary from third to sixth grade reading level. By using the card catalog in your own library adequate substitutions may be found for titles not listed there.

- 1. American Heritage <u>Discoverers of the New World</u> by Josef Berger, American Heritage, 1960
- 2. d'Aulaire, Ingri and Parin Columbus, Doubleday, 1955
- 3. Leif the Lucky, Doubleday, 1941
- 4. Baker, N. B., Amerigo Vespucci, Knopf, 1956
- 5. Henry Hudson, Knopf, 1958
- 6. Juan Ponce deLeon, Knopf, 1957
- 7. Bebenroth, C. M., Merriwether Lewis: Boy Explorer, Bobbs, 1953, (Childhood of Famous Americans)
- 8. Blassingame, Wyatt, The First Book of American Expansion, Watts, 1965
- 9. A World Explorer: Ponce de Leon, Garrard, 1965
- 10. Buehr, Walter, The Spanish Conquistadores in North America, Putnam, 1962
- 11. Westward with American Explorers, Putnam, 1963; (Daniel Boone, Lewis &-Clark, Zeb Pike, Charles Fremont, and others)
- 12. Carmer, Carl, Henry Hudson: Captain of Icebound Seas, Garrard, 1960
- 13. Coffman, R. R., and Goodman, N. G., Famous Explorers for Young People, Dodd 1945
- 14. Dalgleish, Alice, America Begins, Scribner, 1955
- 15. The Columbus Story, Scribner, 1955 (his boyhood and first voyage)
- 16. Daugherty, James, Daniel Boone, Viking, 1939
- 17. Duvoisin, R. A., And There Was America, Kropf, 1938
- 18. They Put Out to Sea, Knopf, 1943, (early map making and hardships of sea exploration)



- 19. Epstein, Sam and Beryl, The First Book of Maps and Globes, Franklin Watts, 1959
- 20. Folsom, Franklin, Famous Pioneers, Harvey, 1963
- 21. Graham, A. P. LaSalle: River Explorer, Abingdon, 1954 (makers of America)
- 22. Groh, Lynn, Ferdinand Magellan, Garrard, 1963 (World Explorer Books)
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- 25. Judson, Clara (Ingram) Christopher Columbus, Follett 1960
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- 27. Kjelgaard, James <u>Explorations of Pére Marquette by Land</u>, Random House 1951, (Landmark Books)
- 28. Knight, Frank Stories of Famous Explorers by Land, Westminster 1965 (summaries of journeys)
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- 30. Knoop, Faith Yingling Francisco Coronado, Garrard 1967 (traveling through territory where no white man had been)
- 31. Latham, Jean Lee Drake: the Man they Called a Pirate, Harper 1960
- 32. Lomask, Milton Ship's Boy with Magellan, Doubleday 1960 (fiction)
- 33. Martin, Patricia Miles Daniel Boone, Putnam 1965
- 34. McCall, E. S. Explorers in a New World, Children's Press 1960
- 35. Mirsky, Jeanette Balboa Discoverer of the Pacific, Harper 1964 (A Breakthrough book)
- 36. Montgomery, Elizabeth Rider <u>Hernando de Soto</u>, Garrard 1964 (adventure)
- 37. Moore, Patrick Exploring the World, Watts 1966 (history of exploration)
- 38. Nolan, Jeaneste George Rogers Clark, Soldier and Hero, Messner 1954
- 39. Pauli, Hertha, America's First Christmas, Ives Washburn 1962 (an account account from Christopher Columbus' Journal of Christmas 1492 telling of Santa Maria's wreck and Indian generosity)
- 40. Protter, Eric <u>Explorers and Explorations</u>, Grosset 1962 (motivations for and results of discoveries)



- 41. Rich, Louise Dickinson The First Book of New World Explorers, Watts, 1960
- 42. Rinkoff, Barbara A Map is a Picture, Crowell 1965 (an easy introduction to reading and drawing maps)
- 43. Shippen, Katherine B. <u>Leif Eriksson: First Voyager to America</u>, Harper & Row 1951 (the excitement of voyage of first man to discover America)
- 44. Smith, Frederika Shumway <u>Frémont: Soldier, Explorer, Statesman</u>, Rand McNally 1966
- 45. Snow, D. J., Henry Hudson: Explorer of the North, Houghton 1962 (Piper Books)
- 46. Sperry, Armstrong, <u>The Voyages of Christopher Columbus</u>, Random 1950 (the four voyages, some seldom heard accounts of his sea voyages and mutinies of his crew)
- 47. Sulton, Felix, <u>Discoverers of America: Primitive Man to Spanish Conquerors</u>, Grosset 1965
- 48. Syme, Ronald, Balboa: Finder of the Pacific, Morrow 1956
- 49. Cartier, Finder of the St. Lawrence, Morrow 1958 (hardships of exploration and relations with the Indians)
- 50. Champlain of the St. Lawrence, Morrow, 1952 (exploration of Canada, relations with the Indians)
- 51. Columbus, Finder of the New World, Morrow 1952 (shows faith in his own vision, triumph over hardships and mutinies)
- 52. DeSoto: Finder of the Mississippi, Morrow 1957
- 53. First Man to Cross America: The Story of Cabeza de Vaca, Morrow 1961
- 54. Francisco Coronado and the Seven Cities of Gold, Morrow 1965
- 55. Henry Hudson, Morrow 1955
- 56. <u>LaSalle of the Mississippi</u>, Morrow 1958
- 57. Magellan, First American Around the World, Morrow 1953
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- 59. Tousey, Sanford, <u>John C. Fremont: Western Pathfinder</u>, Whitman, 1953 (Pioneer Books)
- 60. Wilkie, Katherine E. Daniel Boone: Taming the Wilds, Garrard 1960
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Filmstrips

Some of these may be found in individual libraries, others in district collections.

- 63. Crawford, Thomas, <u>Ponce de Leon in the New World</u>, Troll Associates color, captioned filmstrip (American Backgrounds Filmstrip Library)
- 64. French Explorers of the New World, Encyclopedia Britannica Educational Corp. (EB 9270) 1961, 4 color captioned filmstrips, Cartier, Champlain, Joliet, LaSalle.
- 65. Crawford, Thomas, <u>Leif the Lucky</u>, <u>Viking Explorer</u>. Troll Associates 1939, color, captioned filmstrip (American Backgrounds Filmstrip Library)
- 66. <u>Leif Ericson</u>, single color captioned filmstrip of series, <u>Heroes of Long Ago</u>, Encyclopedia 3ritannica Films 1953
- 67. Man Who Discovered the Grand Canyon, Troll Associates 1968, Color, captioned filmstrip (American Backgrounds Filmstrip Series) Coronado seen as Spanish adventurer in search of gold.
- 68. Champlain in the Wilderness, Troll Associates 1970, captioned, color filmstrip
- 69. Balboa Discovers the Pacific, Troll Associates 1970, captioned color filmstrip
- 70. Around the Warld with Magellan, Troll Associates, 1970, captioned color filmstrip
- 71. Discovery, Exploration and Colonization of America, SVE 1961, 6 Filmstrips, 3 records. See First Two Titles: Discovery of America, Exploration of America
- 72. Me. Who Explored Great American Rivers, Troll Associates 1968, (American Backgrounds Series) Color captioned filmstrip.

FILMS FROM BOCES See also 1974 BOCES Film Catalog

- 73. Columbus and Isabella, 22 minutes (You Are There Series) Catalog 01052
- 74. Lewis and Clark at the Great Divide, 22 minutes (You Are There Series) Cat. 01057

Transparency

- 75. Voyages of Discovery
- 76. Exploration of United States

Items 75 and 76 are map transparancies of the American History Series, Hammond 8496, copyright 1969. It these are not available, trace old maps from texts or encyclopedias on clear transparancies.

<u>Games</u>

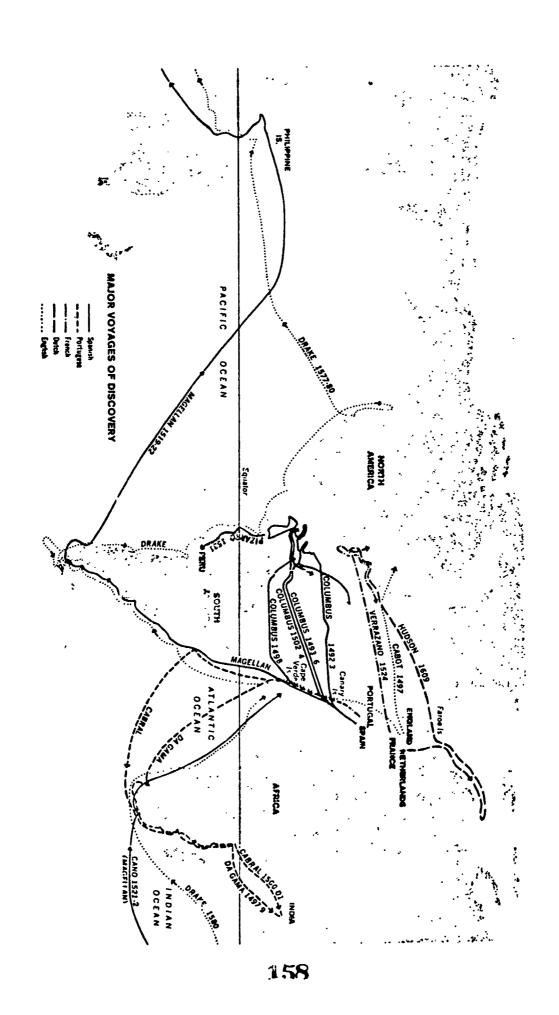
77. Munson, Harold L. and Gockley, Gilbert C., <u>Career Insights and Self-Awareness</u>
<u>Games</u>, Houghton Mifflin Co. 1973 (see Game Leader's Manual and game guide No. 2
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Newspaper

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CAREER EDUCATION TEACHER'S GUIDE

Grades 4 - 5 Social Studies

INVENTORS WHO LEAD--CAREERS THAT FOLLOW

Copyright: Board of Cooperative Educational Services Rockland County, New York 1973, 1974

Rcckland County Career Education Program Dr. Laurence W. Aronstein, Coordinator Rcckland County BOCES West Nyack, New York 10994



PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

Particular mention should be made of those teachers who originally developed the premise for this Guide.

Frank Corica Pearl River
Judith Dudyak Haverstraw-Stony Point
Evelyn Everson Haverstraw-Stony Point
May Hersey Clarkstown
Zaka Kahn East Ramapo
Anne Nash Nyack
Ursula Pardo Clarkstown
Rosalie Race Clarkstown
Rosemarie Tannus Remapo

Acknowledgment should also be given to those teachers who rewrote and reinterpreted those Guides into the present form presented here.

Ruth Berlin East Ramapo Nickolas Kelepis Nanuet Ursula Pardo Clarkstown



INTRODUCTION

Throughout the ages, children have studied the lives and accomplishments of great men. In this unit, <u>Inventors Who Lead - Careers That Follow</u>, was study these great men with a career perspective in mind. This Career Education Gulde attempts to focus on the aspects of the inventor which are involved with developing self-awareness, career-awareness and economic-awareness for each child.

Each unit places emphasis on career education as the inventor and '.is inventions are explored. In this way, we hope to broaden the scope of the traditional study of these great men. Therefore, the goals of this Career Education Unit are to increase the child's understanding of himself, his decision-making skills and his eventual role in the world of work.

The bibliography for all of these units can be found at the end of the guide. It includes a variety of sources and references for each unit.

Each unic on the specific inventor car serve as a model for the additional study of other great men. These units can be utilized in any order and with some flexibility, can be adapted to the interests and needs of the children. The teacher should feel free to add activities and resources that may suggest themselves in her particular program.



CONTENTS

INTRODUCTION

- I Alexander Graham Bell
- II Thomas Alva Edison
- III The Wright Brothers
- IV Eli Whitney
- V George Washington Carver

BIBLIOGRAPHY



-
GRAL E/SI
SUBJECT
Grades
4
5

Najor Aim_ NAME OF UNIT Alexander Graham Bell To develop an understanding of how Bell's personal characteristics led to his success as an inventor.

OWD.	with one of his o	
Each child will write a paragraph comparing one of Bell's characteristics	discussion. Each	
ake a ditto listing the characteristic elicited from the	The teacher will make	EVALUATION PROCEDURE:
9 5 4 3 3 1 1 1 2 2 2 2 2 2 2 2 3 3 3 1 1 1 1	tics of Alexander Graham Bell which are important to recognize are determination, ability to relate information from his job as a teacher of the field of sound transmission, humanistic characteristics and intelligence.	The children will be able to recognize the personal characteristics of Alexander Graham Bell
ty-Read s	The characteris-	
- [CONCEPT	JV .
*******	* * * * * * *	

	et.	our telephones 'work''.	·
necessary in making	with each part illustrating one of the jobs	Make a telephone mobile	EVALUATION FROCEDURE:
165			-
he -			
ne"	skit on "Terry, the Teleph as many workers as possible arroyiding the services of	telephone in- volves a wide variety of careers	necessary to make our tele- phone "work".
as Company Filmstrip and Record	l) Visit the telephone company. Discuss kinds of jobs available with personnel director. Talk to as many workers as possible	The marufacture and use of the	The children will be able to list the kinds of jobs
	VITY	CONCEPT	OBJECTIVE
* *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * *	***
•	6		Najor Aim invention.
Alexander Graham Bell's	the careers available today that are an outgrowth of	be able to trace	The children will
4 - 5	GRALE/SUBJECT Grades	Braham Bell	Alexander

6rades 4 - 5

Thomas Edison 11

NAME OF UNIT -To develop an understanding of how Edison's personal characteristics led to his success as an inventor

EVALUATION PROCEDURE: Develop	1) The children will be able to recognize the personal characteristics of Thomas Edison, particularly his endurance, his practical approach, his excellent use of proach, his excellent use of proach is proach and his excellent use of proach is proach and his excellent use of proach is proach and his excell	CON	
a bulletin board, using children's independent research reports Edison's life and accomplishments.	childhood and low it influenced and determined his develop- career. In this research, make a list of incidents of ational hay or and accomplishments. I b Read and discuss sports. Class discussion should ith this focus on Edison's early life and how he developed personally to become the great inventor he was and the scope of his inventions. (over 100 inventions) which have elactrical activities. Give one group a leader and specific directors. Let other proceed on its own. Then discuss success of groups as they complete task with informed leader (as Edison was) or leader or without a leader? 2) Skits to be developed by small group which portray life without Edison's Inventions. (light bulb, waxed paper, phonograph		安米安米安米安米安米安米安米安米安米
which	SCIS Kits	RESOURCE	* * * * * * *

GRALE/SUBJECT Grades 4 - 5

Najor Nim To develop an understanding of the range of careers related to Edison's inventions. NAME OF UNIT

Thomas Edison II

		ass.	resource people who visited class.	resource pe
	ok Handbook and	Job description should include information acquired from Occupational Outlook Handbook	Job description sho	in doing.
	might be interested	Each child will write a job description for a single electrical job that he mig	child will write	EVALUATION PROCEDURE: Eac
		·		
1		6. How did you get your job?		
67		 Do you feel that you can get ahead on your job; What special training or education do you need? Can you tell us the advantages and disadvantages 		
		 Do you like your job? Is it hard work? How many hours? 	and rewards.	
		their job. Questions might be:	ing conditions	
		3) Invite parents and community people who work in	advantages and dis-	cal jobs in depin.
-	Bureau of Labor	employment outlook, earnings & working conditions.	quirements, ad-	describe at least 2 electri-
٦.		nature of work, places of employment, training and	have definite re-	2) Children should be able to have definite
	3) Occupational	2) In small groups, do research on at least 10 of these	Different jobs	electricity.
	2) N. I. IIIIES	repairman, etc.)	and careers.	related to the field of
		lated to jobs that are in the field of electricity.	produce new jobs	to list at least 10 careers
	1) Local newspaper	1) Children bring in newspapers and cut out all ads re-	Man¹s inventions	1) The student will be able
	RESOURCE	SUGGESTED ACTIVITY	CONCEPT	1137680
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STRATEGY NUMBER

NAME OF UNIT

Wright Brothers III

GRALE/SUBJECT Grades 4 - 5

Najor Aim_ mination, patience, singleacteristics include: deteracteristics of Wilbur and recognize the personal charpose, infinitely careful mindedness, intensity of pur-Orville Wright. These char-The children will be able to workers. * EVALUATION PROCEDURE: To develop an understanding of the Wright Brothers' characteristics which led to their success as inventors. :: grade level. devoting their entire life to a single goal. Children will write a composition describing how they think the Wright Brothers felt about definite skills and qualities of personality are needed. To be an inventor, $|A\rangle$ Write a short biography about the life and work of CONCEPT ት :ት :ት ;; ;; the Wright Bros. of personality; learned skills; and the sequence of events leading to the invention of the airplane. * * * * * * * * * * * B) Prepare a poster with the title, "Happiness is problems. List personal characteristics needed to solve these planes. The children describe their individual prob-() The children will bring in and construct model air which describe the work of the Wright Bros. Inventing and Airplane". Include pictures and words lems encountered in building these model airplanes. SUGGESTED ACTIVITY Indicate growing up period; qualities Children may read some to classes on the same * ;; :: * * ::-;; :: : ፦ RESOURCE

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Grade 4 - 5

	e level can serve as audience for the panel discussion.	Other classes in grade	10
field today.	Panel will discuss the need for the jobs in the aviation f	panel discussion. Pa	pa
participate in a	presented in group reports and activities, children will par	Using information pro	EVALUATION PROCEDURE: Us
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son Pu			
	hotos (when		
יי יי יייייייייייייייייייייייייייייייי	wards, job opportunities. Reports when presented		
Outlook Handbook	include information on jok, hours of employment, sp		
	0		
	of workers in field.	field of aviation	tions related to aviation.
2) Cameras	unds and interviews with as many	atio	identify at least 5 occupa-
1) Ramapo Airport	1) Arrange and take a field trip to the local airport.		
RESOURCE	SUGGESTED ACTIVITY	CONCEPT	OBJECTIVE
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•		career cluster.	aviation career
th of the	ling of how the 4right Brothers invention led to the growth	velop an understanding	The student will develop
	GRACE/SUBJECT Grade 4 - 5	ers III	NAME OF UNITWright Brothers III

To develop an understanding of how Whitney's inventions led to a change in American Life Style NAME OF UNIT _ Eli Whitney GRACE/SUBJECT_ Grades 4 - 5

		children aware of the differences in life styles.	make the childre	Film strips should make the
1	lm strip.	Factory Worker." Cassettes may be used in conjunction with the film	Life of a Factory	and "A Day in the Life of a
-	of a farmer"	in small groups to produce a film strip 'A Day in the Life	Children will work	EVALUATION PROCEDURE:
170	2 pe shai knii cas:	Assuming that lessons on Eli Whitney's invention have been taught; following activities will deal with result of his viscoveries rather than the process. It is considered then with a pencil sharpen? Let with a knife and then with a pencil sharpen? Let with a knife and then with a pencil sharpen? Let with a knife and discuss roughness of board differences between pencils. This experiment should point advantages of using machines. Now that machine advantages have been demonstrated shift discussion to how machines brought factories and growing factories produced a shift in population to to to the cities. Students divide into 2 groups, farmers if factory shows a shift in population to to the cities of aspects of each type of life (e. outdoors or indoors, works alone or in groups, lives outdoors or indoors, works alone or ling groups, lives outdoors or indoors, works alone or ling groups, lives outdoors or indoors, works alone or ling groups, lives outdoors have changed the texture of American Life. As a live of live and the factory for production of artificial powers. The following questions should be discussed: The following factory for production of the cities of the personal challes and feelings of self-worth.	CONCEPT Eli Whitney's invention of interchangeable parts led to mass production and a large increase in factory employment which in turn, led to a shifting of a rural economy to a manufacturing economy	The children will be able to recognize how the contribution of Eli Whitney as an inventor changed the lifestyle of many people.
	RESOURCE	S S S S S S S S S S S S S S S S S S S	×	本 作 次 次 次 次 次 次 次
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Grades 4 - 5

NAME OF UNIT __ Hajor Aim____To develop an understanding of how Whitney's inventions led to a change in American Life Style Eli Whitney GRAL E/SUB JECT_

		the children aware of the differences in life styles.	hould make the chi	Film strips should make
	tiim strip.	Cassettes may be used in conjunction with the	and "A Day in the Life of a Factory Worker."	and "A Day in
	of a Farmer"	in small groups to produce a film strip 'A Day in the li	Children will work	EVALUATION PROCEDURE:
171		SUGGESTED ACTIVITY Assuming that Tessons on EIT White been taught the following activity to his discoveries rather result of his discoveries rather with a pencils. In- In- In- In- In- In- In- In	CONCEPT CONCEPT to Eli Whitney' invention of interchangeabl parts led to mass product and a large crease in factory empl ment which i turn, led to shifting of rural econom economy	The children will be able to recognize how the contribution of Ell Whitney as an inventor changed the lifestyle of many people.
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*Full Text Provided by ERIC

Steps in assembling flowers.

NAME OF UNIT ______George Washington Carver

To develop an understanding of how in spite of early obstacles, Washington Carver became a famous inventor

1-)U the tapehor read the story of George Washington		Early life ex. Carver to the class. Complete was list of the significant class. Complete was list of the significant class.	trace how the early life periences mold Carver to the class. Compile a list of the significant trace how the early life periences mold incidents in his life. (His parents were slaves, he was corre washington Carver) the adult.	accomplishments as an adult.		children receive teacher-made ditto into small groups to discuss which of accomplishments as an adult.
			la)Have the teacher read the story of weblies washington	children will be able trace how the early life periences mold george washington Carver the adult. feerge washington Carver the adult. shments as an adult. fincidents in his life. (His parents were slaves, he was a slave, his early kidnapping, his being traded for a horse, his father was killed in an accident when he was a hoby, etc.) Ib) The children will compare the childhood of Carver with the childhood of an inventor already studied in order to recognize that varying backgrounds can produce the same kind of dedication to an idea. Class will produce a chart culminating this comparison. Ic) Write a creative story using an experience you had or a personal characteristic of yourself, (Selfishness, perseverence, sticktuitiveness, gentleness, intelligence), which may enable you to become a famous inventor. Children receive teacher-made ditto listing numerous character traits. Children traits contributed to (his)	able Early life ex- ly life periences mold Carver the adult. Carver the adult. Carver the adult. Com- lt. It. It is a the adult. Com- lt. It is a the adult. I	children will be able trace how the early life periences mold incidents feorge Washington Carver the adult. a slave, a baby, ishments as an adult.
UB TELLINE	44:44:		la)Have the teacher read the story of George Washington	able Early life ex- ly life periences mold Carver the adult. Carver the adult. It a slave, his early kidnapping, his being traded for a slave, his father was killed in an accident when he was a baby, etc.) Ib) The children was killed in an accident when he was he corder to recognize that varying backgrounds can produce the same kind of dedication to an idea. Class will produce a chart culminating this comparison. Ic) Write a creative story using an experience you had or a personal characteristic of yourself, (Self shness, gence), which may enable you to become a famous inventor. Children receive teacher-made ditto listing numerous character traits contributed to (his)	able Early life ex- ly life periences mold Carver to the class. Compile a list of the significant incidents in his life. (His parents were slaves, he was coom- lt. It. It adult. It a baby, etc.) Ib) The children will compare the childhood of Carver with the childhood of an inventor already studied in order to recognize that varying backgrounds can produce the same kind of dedication to an idea. Class will chart culminating this comparison. Ic) Write a creative story using an experience you had or a personal characteristic of yourself, (Selfishness, gence), which may enable you to become a famous inventor and characteristic of yourself, (Selfishness, untelligence), which may enable you to become a famous instance that comparison into small groups to discuss which of these character traits contributed to (his) accomplishments as an adult.	children will be able trace how the early life periences mold incident. George Washington Carver the adult. a slave, a shorse, horse, h
טטטטרטירט אייייייייייייייייייייייייייייי			la)Have the teacher read the story of George Washington	able Early life ex- Carver to the class. Compile a list of the significant incidents in his life. (His parents were slaves, he was a slave, his carly kidnapping, his being traded for a horse, his father was killed in an accident when he was horse, his father was killed in an accident when he was a baby, etc. It. It. Compare the childhood of Carver with the children will compare the childhood of Carver with the children will compare the childhood of Carver with the childhood of an inventor already studied in produce the same kind of dedication to an idea. Class will produce a chart culminating this comparison. Ic. Write a creative story using an experience you had or a personal characteristic of yourself, (Selfishness, perseverence, sticktuitiveness, gentleness, intelligence), which may enable you to become a famous inventor small groups to discuss which of these character traits contributed to (his)	able Early life ex- ly life periences mold Carver the class. Compile a list of the significant in his life. (His parents were slaves, he was a slave, his early kidnapping, his being traded for a horse, his father was killed in an accident when he was horse, he children will compare the childhood of Carver with the childhood of an inventor already studied in order to recognize that varying backgrounds can produce the same kind of dedication to an idea. Class will produce a chart culminating this comparison. Children receive teacher-made ditto listing numerous character traits contributed to (his) accomplishments as an adult.	children will be able Early life exter to trace how the early life periences mold incident a slave, a slave, a baby, ishments as an adult.
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STRATEGY NUMBER

2

		specifications.	spec
job	d during this unit. Attention will be g.,_n to details of	searched and classified	Sear
scussed, re-	a 'Help Wanted Section' based on some of the jobs di	children will develop	EVALUATION PROCEDURE: The
174	umbrella it relates to (ex. food processing, agri- cultural research, advertising and packaging, etc.) 4) Have small groups choose a career cluster and research the jobs in it in terms of nature of work, job advantages and disadvantages, training and quali- fications, employment outlook, earnings, etc.		
Occupational Outlook Handbook, U. S. Dept of Labor Statistics 1972-73	will link at least one career to eacillustrated on bulletin board. Brairether. ify these careers under the specific	many new careers.	
Bulletin board	1) Have the children bring in pictures which relate to all the products that the peanut gives us(i.e. cooking and salad oil, ink, soap, peanut butter) Use these pictures to develop a bulletin board on the uses of the	Research, in- ventions and scientific dis-	The child will be able to list at least 5 jobs related to the research done by
RESOURCE	SUGGESTED ACTIVITY	CONCEPT	OBJECTIVE
. Carver	**************	-	
George Washington	careers related to the scientific findings and inventions of	understanding of the car	To develop an
	GRAL : /SUBJECT Grades 4 - 5	ton Carver	George Washington Carver

Film-<u>History of Aviation</u>-Part I- 28 min., Dept. of the Army Educators Guide To Free Films

Filmstrip-The Wonder of the Electric Light, Eye-Gate

Filmstrip-George Washington Carver, Troll Associates

Tape-Living History-#6713-Bell, Imperial International Learning

Filmstrip-People Who Make Things-Part 4, Guidance Associates



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CAREER EDUCATION TEACHER'S GUIDE

Grades 4 - 5

SAFETY AND HEALTH IN SCHOOL AND INDUSTRY

Copy ight: Board of Cooperative Educational Services Rockland County, New York 1974

Rockland County Career Education Program Dr. Laurerce Aronstein, Coordinator Rockland County POCES West Nyack, New York 10994

PREFACE

This teacher's Guide was developed 'y county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blu print and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent format, so that teacher need not reinterpret a new format for each of the Guides.

Particular mention should be made of those teachers who originally developed the premise for this Guide.

Ursula Pardo - Clarkstown Lenore Loeb - Pearl River



INTRODUCTION

This unit has been prepared to develop safety and health awareness in children, from fourth to sixth grades, as an important part of their education. Knowing where and how accidents can happen and studying how industry meets these challenges increases a child's ability to take care of himself. This unit is devoted to the practices of industry in dealing with safety problems and the personnel required to deal with these problems.

We hope to stress in this unit the careers that are available in safety and health. Since career awareness begins with the individual, we have tried to focus on what is familiar to the student.

Although the strategies are linked by common themes, they need not be used sequentially, but could be interspersed either in the existing safety curriculum, or in social studies; i.e. when you are teaching the units on the changes in a country as it moves from a rural society to an industrial one. It could be infused with the United States study from an industrial focus.

There is little available material on the elementary level in this particular subject, but the local companies such as Lederle and Orange & Rockland are more than willing to cooperate with materials, class-room visits, and speakers. Parents too, can be a valuable resource and an occupational file might be developed early in the year.

The enactment of the Occupational Safety and Health Act of 1971 (OSHA) has done much to enforce safety standards in industry.

We hope that this unit will alert the student to maintain safe practices in his nome, classroom, and on the playground, and make him aware of the numbers of people and the variety of roles they play in industry.

The bibliography at the end of the unit contains two lists of suggested available films and filmstrips. One is specifically materials put out by Orange & Rockland, and the other, all other available films and filmstrips. We have also included a list of industries we contacted locally. The teacher should feel free to use all activities and resources that may suggest themselves in his or her particular program.



NAME OF UNIT Safety and Health in School and Industry MAJOR AIM EVALUATION PROCEDURE: safety rules in an in-The child will be able to list the important dustrialized society. OBJECTIVE : ;; To foster career awareness in *he major industries within the context of safety and health ::-* Students will list our industrial portant element in speed and safety. another with numbers of people must move large society where we Safety is an imfrom one area to ::-COINCEPT * * * safety procedures they thought of relative to moving about the school. other than to change classrooms at a designated where two classes will be given no instruction why they are necessary. of concept of mass transportation being necessary als to establish rules and guidelines (b) need for Elicit reactions and develop: (a) need for individucuss results once the transfer has been made. time. Use a stop watch to time this change. Disas to time elimination of dangers, hazards and confor a traffic regulator (d) Lead into development possibly chart the major safety procedures, and (3) Child will meet in committees to list and/or fusion (2) After discussions reenact procedure and evaluate in industrialized areas. individuals to establish traffic patterns (c) need (1) Set up a situation with another staff member * * GN. DE/SUBJECT SUGGESTED ACTIVITY * * * * 4 and 5 ::-::-* :-Ants: Backyard #00434 Kind Hearted Ant #00435 BOCES Films: #03053 Education Film Universi Safety Rules for School of 111. 1969-72 RESOURCE : ::-Science ×, 181

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NAME OF UNIT Safety and Health in School and Industry GRADE/SUBJECT MAJOR AIM To foster career awareness in the major industries within the context of safety and health.

EVALUATION PROCEDURE: Th			Children will be able Tho	OBJECTIVE OBJECTIVE
The children will make arrows to portray traf alternatives and ways students awareness or		reassessment of safety rules	There is a con- tinual need for	* * * * * *
make a large map showing all rooms in the school, using traffic patterns during a fire drill Discussion on possible ways to improve these traffic patterns would indicate the school for continual reassessment.	makers of safety and fire fighting equipment, extinguishers and sprinkler systems. (2) Make a map or model of the school, showing all rooms. This can easily be done by various committees. All exits should be drawn in. Then using arrows show traffic patterns used during fire drills. (3) Discuss possible alternatives and ways to improve them. Stress the possibility that existing paths normally used might be blocked.	patterns, (b) following directions, (c) respect for safety and lack of mass confusion, (d) career aware-	(1) Set up a fire drill to be held in school. (Either entire school or single class.) Afterwards have a discussion and assess: (a) traffic	# * * * * * * * # # # # # # # # # # # #
ible e	University of ill. Safety with Fire #02172	Flan #00490	BOCES Film: Donald's Fire Survival	* * * * * * RESOURCE

NAME OF UNIT Safety and Health in School and industry GRADF/SUBJECT 4 & 5 To foster career awareness in the major industries within the context of safety and health.

MAJOR AIM_

EVALUATION PROCEDURE:	OBJECTIVE Students will be able to evaluate the safety procedures in the school, and to select the class with the best safety practices.
Students will observe rewards. This can be award might decrease	CONCEPT Rewarding good safety practices should reduce accidents.
number of accidents and whether they decrease as a done a second month to compare whether the motivatio	SUGGESTED ACTIVITY Toacher will set up committees of 2 or 3 children. Each committee will be assigned one classroom in the school. At the end of each day the committees will go to their classroom and interview the class room that day. One committee might interview the nurse as to accidents occurring in the class room that day. One committee might interview the nurse as to accidents in the halls, lunch room or playground. A record of these accidents will be kept for one month. At the end of the month, tabulate the results on the blackboard, and give an award to the class with the least number of accidents. (A chart could be made showing where most accidents occur in the school.) PTA might be contacted to give a concrete prize to the safest classroom.
result of	* * * * * * RESOURCE McGraw Hill Filmstrip A Good Citizen Grows in Responsibility #FS 613171

Fact Sheet CYANAMID SAFETY DAY May 8, 1974

OBJECTIVE: 1.

To observe the annual Cyanamid Safety Day by conducting appropriate programs in U.S., Canada and other locations to emphasize the company's policies, procedures and practices of employee protection in the work environment and for their families as well.

The 1974 theme dramatizes the role of the individual employee in strengthening Cyanamic's 'ring of protection' embracing Safety, Industrial Hygiene, Occupational Medicine and Loss Prevention.

- The local observance should be built around the traditional safety meeting(s), highlighted by Chairman C. D. Siverd's message. Once again, this will consist of a recorded 8-10 minute commentary synchronized with 35 mm colog slides illustrating employee protection activities at various Cyanamid locations. Other program activities may include demonstrations, films, current environmental occupational practices and problems. Participation by union representatives, community and state officials and other non Cyanamid safety specialists may also be considered.
- Exh bits of safety equipment and devices used in Occupational Medicine, Industrial Hygiene and Loss в. Prevention may be set up in appropriate locations following past practices. Off the job safety should also be emphasized.
- Wayne will provide a kit of materials including posters, news release and other items. С.

SAFETY DAY PROGRAM SUGGESTIONS

- Departmental safety meetings. 1.
- Safety I lag flown at main entrance. 2.
- Special issue of plant publication. 3.
- Depar mental Safety Certificate Presentations. 4.
- Safety and environmental protection equipment displays for easy viewing by personnel and visitors. 5.
- Employee children poster contest dealing with off-the-job 6.
- Safety lemonstrations, including fire drills and films.
- Attendance by mayors, public safety and public health 7. 8. officials and the press.
- Safety literature distribution.
- Safety Kit of materials sent to State Industrial Safety 9. 10. Commissioner.



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1973 SAFETY DAY PROGRAMMING

(reprinted from CYANAMID NEWS)

Safety Day 'disasters' lend real punch

A helicopter crash, tank car derailment, truck-car smashup and numerous fires occurred in a single day recently at Cyanamid locations around the world. The mock disasters were part of the Sixth Annual Safety Day observance.

Many plants had special activities for the May 9 event, such as poster contests and guest speakers, which complemented a slide presentation and taped message by Chairman C. D. Siverd.

Local newspapers covered most of the programs and used photos of employees a emergency drills.

In keeping with the theme, some plants displayed spiasing poggies and other protective gear at building entrances, while others presented plaques to accident-free departments.

Typical of the company-wide programs were the safety discussions between foremen and hourly shift employees at the Perrysburg. Onlo plant,

Prizes up to \$100 for the best safety posters were of:ered employees and their children at several locations. A unique contest was sponsored by the Memphis (Shuiton) plant. Employees were asked to find the number of safety fault. in a picture of a workshop. The winner got a day off with pay.

A spot check turned up other unusual items:

Standard Coated Products in Buchanan, N. Y., simulated a resche operation from a tank car wreck with Peter Wiceler, a junior mechanic, ple ing the part of the "victim."

A fake car-track collision at the main wate of the Formica Corporation plant in Sierra. Califa, was staged buring a shift change. The scene was complete with ambulance and highway pate I cats. The St. Louis distribution center ordered a cake with the lettering "Safety Annivers, ry 1973," while Burma Shave-type safety slogans were erected on the bound Brook plant's main thoroughfare.

The mayor of Danbury, Conn., was among special guests at the Davis & Geck program. At Havre de Grace, sectetaries manned canopied booths in the parking lot and distributed safety literature. The Agricultural Center's cafete in at Princeton had safety slogens on napkins and placemats, and Wayne showed a film on the damage involved in a small curlarge car head-on crash.

Cyanamid International reported a score of netwices among subsidiaries, including the mack crash of a Royal Nevy helicopter at the plant in Gosport, England, Employee thre righting teams in asbestos crothing rushed to the scene.

followed by medical units.

Children of employees at the Botleli. Holiand, facility joined the local fire brigade in a training exercise. In a similar drill at the Florencio Varela plant in Argentina, the fire brigade reached the "disaster site" in a swift 80 seconds.

Speed was also the key in Brazil, where fire fighting teams at the Sao Paulo, Rezende, and Rio de Janeiro plants competed for prizes.

At Hsinchn, Taiwan, the Ministry of Interior Affairs' award was presented to Cyanamid Taiwan Company for its year-round safety record.

"This was definitely one of our best Safety Day observances," summed up W. V. Ardrecca, Director of Occupational Environmental Services. "One plant manager said the day gave his safety program a good shot in the arm. I hope that was true all over."



NAME OF UNIT Safety and Health in School and Industry GRADE/SUBJECT 4 & 5

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MAJOR AIM To fuster career awareness in the major industries within the context of safety and health.

EVALUATION PROCEDURE: L		Students will be able to contribute to the Safety Program at school by planning a "Safety Day."	** * * * * * * *
Listing of benefits of school.		Safety is the responsibility of every citizen.	CO/4CEPT *
 Safety Day" could be made available to Principal or rest of		Compare with safety campaigns of Lederle. Set up possible "Sefety Day" in your school using attached shart as guideline. Other material might be gathered from large companies to be used as guidelines. Discussion of possible benefits of having "Safety Day" could follow.	* * * * * * * * * * * * * * * * * * *
rest of	186	Safety Day plan from Lederle Material from other companies.	* * * * * * *

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GR. DE/SUBJECT 2 3 4

NAME OF UNIT job. MAJOR AIM portation. his/her skills and atti-Students will analyze identify jobs relating to Students will be able to tudes in relation to a traffic safety and trans-** EVALUATION PROCEDURE: * OBJECTIVE ÷ Safety and Health in School and Industry * To foster career awareness in the major industries within the context of safety and health. ;; Students will identify 10 jobs relating to traffic safety and transportation. Teacher evaluation of student activity #2 choosing a career is important when Self-awareness CONCEPT : safety. Following this, list qualities that might blackboard careers in transportation and traffic tion. Make bulletin board from pictures. or magazine showing worker in Safety or Transportagraph form, tell why he/she is suited for that job. be needed for each job. (1) Teacher will brainstorm with class and list on (3) Children should bring in picture from newspa, er (2) Each student should select a job and in para-:: ٠,٠ ::-SUGGESTED ACTIVITY ::ų. * * :-* :: * * :: Signs (2 filmstrips, cassette) #X458 Eyegate 1974: #X457 ate road safety) cassettes incorpor-Cars, Bikes and People Driving Right International Road RESOURCE #239B ÷



Safety and Health in School and Industry GNODE/SUBJECT

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NAME OF UNIT_

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MAJOR AIM To foster career awareness in the major industries within the context of safety and health.

W	reactioning backer will observe questioning														inform- information.	Tace Nich ion to determ	students will It is important to	OBJECTIVE CONCEPT	
	estioning and interaction of students and speakers,	role? How often does it meet? Who participates?		_₽	your employees use and familiarize themseives	(8) What protective clothing or devices must	(7) How do you develop safety specifications for	(6) In your industry what is the main safety hazard?	(5) Do you have like or disasted?	-	(4) What audio visual materials do you use for on-	cerned about standards of safety and health?		(2) How do you maintain standards of safety and	(1) Do you have a health officer? Safety Officer?	Suggested questions follow:	Children will compile a questionnaire to use { for letter writing and interviewing guest speakers.	300013110 20110111	(こ)つのカイワン ハコー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー
	as well as	es 7	•		-	1	88			(OSHA)	אינייי ענייני, או עי זניניניל	90 Church Street	or Uccupational Salet	Contact the Office		Workers #H45b	Eyegate 1974 1974 Public Service		2500000

NAME OF UNIT MAJOR AIM_ STRATEGY NUMBER VII
Safety and Health in School and Industry GRADE/SUBJECT 4 & 5 To foster career awareness in the major industres within the context of safety and health

EVALUATION PROCEDURE:		,		panies employ safety and health practices.	The student will be able to deduce that large utility com-	OBJECTIVE * * *
The student will list health practices that				large utility companies.	parts of the	1 1 1
three utility companies, and identify three safety and each company uses.	or way.	The work and people involved are also discussed, and questions encouraged. Children will be allowed to use the equipment and apparel in the	(a) Safety glass (b) Hard hats and other apparel (c) Rubber gloves and tests made on them (d) Poles (phone and electric)	to the time allotment, and interest of the group. Since safety procedures are an integral part of the programs they will discuss the use of:	Telephone Co. and they will provide for a program in the classroom that is twofold. It is safety	* * * * * * * * * * * * * * * * * * *
nd three		189	Orange & Rockland Community Polations Manager	(consultant) Program called Installer Truck Visit	New York Telephone to. at 914 356-7900 speak with Mrs. Murphy	RESOURCE Contact:

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EVALUATION PROCEDURE: Teac	industry to discover its safety practices.	The students will be able to demonstrate their the knowledge of writing a business letter by	OBJECTIVE * * *
Teacher will check business letter fo		It is necessary to write business letters to obtain information from industry.	CONCEPT
business letter for accuracy, and observe the class brain-	(It is assumed that the student has already been taught to write a business letter as part of the curriculum.) Questions for business letter as part of the curriculum.) 1. Do you have a safety officer? 2. Do you have a health officer? 3. How do you maintain standards of safety and health? Committees, campaigns 4. How do you motivate employees to be concerned about standards of health and safety? 5. What audio-visual materials do you use in this area? 6. Do you have fire drills? How are they run? 7. In your industry, what is the main safety hazard? 8. What protective clothing or devices must your employees use? 9. Has the OSHA* of 1971 helped your industry in campaign for safety? *Occupational Safety and Health Act of 1971. 10. Now many arcillational Safety and Health Act of 1971. 11. How do accidents this year compare with accidents in	Write a letter to any of the companies on the attached list. Brainstorm with the children the various points of information you want from the specific company. (i.e. Questionnaire below)	SUGGESTED ACTIVITY
	12. Where do most of accidents occur? (a) in parking 1. (b) on assembly line (c) from unsafe apparel (d) in the offic. a?	(1) List of major companies (2) List of questions	RESOURCE

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STRATEGY NUM NAME OF UNIT Safety and Health in School and Industry MAJOR AIM_ : of the major types of able to compile a list accidents in industry. EVALUATION PROCEDURE: The students will be ::-OBJECTIVE : To foster career awareness in the major industries within the context of safety and health ;-::-Class discussion and analysis of chart. industry. in all areas of Accidents happen COMCEPT :: accidents and possible preventative measures. analyze charts and discuss possible reasons for accidents occur and their main causes. Class will make a chart showing the major areas in which When you have received the answers to your letters, Committees. Teacher can stress need for on-going Safety * * GRADE/SUBJECT ;; SUGGESTED ACTIVITY ;; :: :::• * * 4 & 5 ::-* : ;; Safety with Electricit #01340 University of Illinois Educational Films Safety. #00499 Electrical Principles 1969-72 RESOURCE :: :: *

Safety and Health in School and Industry (GITADE/SUBJECT

NAME OF UNIT_ MAJOR AIM ÷ EVALUATION PROCEDURE: about specific careers Student will be able health in industry. to gather information related to safety and * OBJECTIVE To foster career awareness in the major industries within the cortext of safety and health. * opment creates The teacher will observe that succinct questioning is used in letter writing many jobs and industrial companies regarding safety and health practices. careers. Industrial devel-* ::-CONCEPT * * ::-After receiving answers from various industries, ::write a letter to the person in charge of safety Stress the following questions: in a specific industry. ų. <u>c</u> (b) * What is the exact nature of your job? What qualifications and prior training What jobs in your industry fall into are necessary for your position? the field of health and safety? * SUGGESTED ACTIVITY ፦ * * 4 8 5 * ×. ::-::-: :: BOCES Film #00858 Manufacturing to RESOURCE :: : .

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Safety and Health in School and industry

GRADE/SUBJECT 4 & 5

NAME OF UNIT The students will be able to read a want-ad within the field of safety and health. MAJOR AIM * ::-OBJECTIVE To foster career awareness in the major industries within the context of safety and health. * working conditions. requirements and have definite Different jobs CONCEPT * * * could be done. Officers, a lesson on want-ads in the local paper should stress abbreviations used, and use the folads related to jobs in safety and health. lowing questions: * What different jobs are? Children could bring in newspapers and circle all While waiting for a response from the Safety Where is job? Whom do you contact? * What is cost of ad? (Stress need to be concise.) What qualifications are needed? ; * SUGGESTED ACTIVITY * * * * * * Teacher * * ::-Local newspapers RESOURCE ٧. * ::-193

EVALUATION PROCEDURE: The teacher will observe that students can discern and read want ads dealing

with safety and health.

NAME OF UNIT Safety and Health in School and Industry GRADE/SUBJECT 4 & 5 MAJOR AIM To foster career awareness in the major industries within the context of safety and health.

EVALUATION PROCEDURE:	•		The student will be able to read and write a want-ad within the field of safety and health.	,	
The teacher will obs			Definite skills are needed to work in the fields of safe-ty and health.	CONCEPT	* * * *
observe the ability of students to write and respond to want-ads			When answers are received from safety officers, the students can be set up in committees of two. One child will write a want-ad for a "safety" person; the other will answer the ad. These will be read aloud in class and discussed. (Children might also role-play an interview if the teacher thinks the children can handle this.)		* * * * * * * * * * * * * * * * * * * *
at-ads				RESOURCE	* * *
		194			*

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EVALUATION PROCEDURE:		The student will be able to participate in a panel discussion where he will compare and contrast the responsibility of safety officers.	· · · · · · · · · · · · · · · · · · ·		To foster	NAME OF UNIT Safety and
questions posed by		Safety is an important element in an industrial society.	*		career awareness in	STRATEGY NUMBE STRATEGY NUMBE
the student audience.		rom safety officer, the rs will form a panel. The and have a panel dish the various industries. The strengths and so could be one of the dish dby the rest of the	SESTED ACTIVITY RESOURCE		the major industries within the context of safety and health.	STRATEGY NUMBER GN::DE/SUBJECT GN::DE/SUBJECT
1 1 1 1	' '	195	• 1	•	•	

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STRATEGY NUMBER Safety and Health in School and Industry GRADE/SUBJECT

NAME OF UNIT

MAJOR ALL * EVALUATION PROCEDURE: Students will be able healthful and unhealthto discriminate between ful food preparation. * **OBJECTIVE** :: To foster career awareness in the major industries within the context of safety and health. * |must be taken in |poses great care the preparation of food. For health pur-. * Teacher will observe preparation of sandwiches, and evaluation of safety and health practices. :-CONCEPT * * * and discuss the reasons for this. observe the apparel (head covering, smocks, gloves) food preparation and arrange for a class trip to Contact the people in the school system who handle optional activity.) health and safety aspects. (This should be an other half who will evaluate the procedure from One-half the class will prepare sandwiches for the 5 £ω to discuss: tive those people could be invited into the class (2) Personal health and innoculations to prevent (1) Cleanliness-bacteria both harmful and helpful. * The individual has responsibilities in disease That the community shares in the responsibility Health laws put out by the Dept. of Health of keeping people healthy. germs from spreading. prevention. * * SUGGESTED ACTIVITY * * **;**; * * As an alterna-* * * * * RESOURCE >; 197

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. MAJOR AIM

EVALUATION PROCEDURE:	Children will be able to note and name proper standards of health found in food and pharmaceutical industries.	** * * * * * * *
Teacher observa food and drug o	Major food and drug companies have to maintain proper standards of health.	CONCEPT * * * * *
observation of role playing and the chart compiled by the students of drug companies that maintain proper health standards.	(1) Children will list five food and/or drug companies whose products are used at home. This can be compiled with a class chart. (2) From their list theywill select one company and draw a series of cartoons to show healthful practices on the assembly line. Or (3) Children can role play healthful practices on the assembly line assembly line after they have selected a company to portray along with one of their products.	SUGGESTED ACTIVITY
ents of	198	RESOURCE

NAME OF UNIT practices in Industry in able to incorporate knowa three-dimensional pro-The students will be ject. ledge of health and safety MAJOR AIM ž. EVALUATION PROCEDURE: * OBJECTIVE ::-STRATEGY NUMBER Safety and Health in School and Industry To foster career awareness in the major industries within the context of safety and health. : >;health. standards of maintain proper drug companies Major food and Observation by the teacher of a three dimensional project of healthful and * safe practices found in industry. * CONCEPT * * **;**; mittees, and with the material they have learned from healthful and safe practices. mache, small sticks, cardboard, etc.) to portray using any of a variety of materials (clay, paper discussing and role playing they will build a model listening, reading, interviewing, letter writing, * As a culminating activity children can form com-* * GR.NDE/SUBJECT * SUGGESTED ACTIVITY * ٧. * * * 4 & 5 * * * ;; Assembling a Car #X315A A Field Trip to a Steel Mill #x338C ::-Eyegate 1974 RESOURCE ;; >;-;; * 199

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Assembling a Car. Eyegate, 1974 #X315A

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Cars, Bikes and People. Eyegate, 1974 X239B

Driving Right (six filmstrips with cassettes) Eyegate, 1974 #X457

Donald's Fire Survival Plan. BOCES Film #00490 (11 minutes)

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Highway Builders. BOCES #00841 (110 minutes)

How to Have an Accident at Work. Educational Films, University of Illinois, 1969-72 #02065 (8 minutes)

Kind-Hearted Ant. BOCES Films #00435 (10 minutes)

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Paul Scano, Safety Co-ordinator 357-2000

Ciba-Geigy
Hemion Road
Suffern, N.Y.
Mr. Lankering, Public Relations
Mr. Stevens, Plant Manager 357-1700

Lederle Laboratories Middletown Road Pearl River, N.Y. Chuck Isberg, Community Relations Manager 735-5000

MRC Route 303 Orangeburg, N.Y. Wallace Cross El 9-4200

Multi Metal Wire Inc. 501 Route 303 Tappan, N.Y. Alfred Stern 359-3000

New York Telephone Co.
Route 59
Spring Valley, N.".
Mr. Eggarton
Mrs. Murphy, Consultant: for trips 356-7900

Orange & Rockland Utilities, Inc. 75 W. Route 59 Spring Valley, N.Y. 10977 Community Relations Manager 352-6000

Rockland County Board of Health Health and Social Service Complex Sanitorium Road Pomona, N.Y. Dr. Waldron, Personnel Office 354-0200

World Wide Volkswigon
Greenbush Road
Orangeburg, N.Y.
Mrs. Cavari
Len Lawrence, Personnel Director 359-5000



CAREER EDUCATION TEACHER'S GUIDE

Grades 4 - 6

HEADLINES AND DEADLINES

Copyright: Board of Cooperative Educational Services Rockland County, New York 1974

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PREFACE

This teacher's Guide was developed by county teachers for teachers. The material was developed with the infusion strategy in mind. That is, traditional units were selected and the approach to the unit was refocused in order to emphasize Career Education.

It is not our intention that these Guides be a blueprint and that they be followed point for point. Rather, we feel that this material will provide a key resource from which the creative teacher might implement all kinds of unique teaching-learning situations. Each Guide is uniquely designed to emphasize how Career Education relates to some phase of the subject matter. We do this to point up that there exist many diverse approaches to infusing Career Education into the existing curriculum. This end is accomplished through the use of a consistent formal, so that teacher need not reinterpret a new format for each of the Guides.

Particular mention should be made of those teachers who originally developed the premise for this Guice.

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Acknowledgment should also be given to those teachers who rewrote and reinterpreted those Guides into the present form presented here.

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INTRODUCT

The importance of the newspaper as a medium of mass communication is unquestionable. Yet, a newspaper cannot be created without the multifaceted skills of dedicated workers.

The objective of this unit is to create an awareness and understanding of the dignity and worth of each individual whose occupational role contributes to the publication of a newspaper.



STRATEGY NUMBER | GRADE/SUBJECT_ 4 - 6

NAME OF UNIT Headlines and Doadlines

EVALUATION PROCEDURE:	The students will be able to identify the importance of a newspaper in a changing society.	MAJOR AIM To foster soo
The teacher will evaluate the discussion and the information	A newspaper is an important form of communication.	cial and communication * * * * * * * * CONCEPT
raluate the lesson according to the quality of the information obtsined.	(a) What kind of information can people find in a newspaper that will help them in their daily lives? (e.g. local happenings, classified ads, ads in general, entertainment schedules, editorial opinions, etc.) (b) Where else can they find this information? (i.e. sometimes T.V. or radio, word of mouth) (i.e. sometimes T.V. or radio, word of mouth) (i.e. more complete, time to absorb information, etc. (d) Any other ideas elicited from children. (d) Any other ideas elicited from children.	foster social and communication skills appropriate to self-identity. * * * * * * * * * * * * * * * * * * *
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NAME OF UNIT_ Headlines and Deadlines

To foster social and communication skills appropriate to self-identity.

EVALUATION PROCEDURE: 1)The 2) Given ham a co		귱
students ability ve the students for them locate the section of th	* * * * * CONCEPT A newspaper is composed of many diversified sections.	foster social and communication skills
ty to perform the activities. four items from the paper not previously mentioned, and them. them. tons of a newspaper, mount them on colored paper, and colorful display.	SUGGESTED ACTIVITY (1) Divide class into groups of 3-4 students. Give a copy of a newspaper to each group. These groups in turn, are to list six different kinds of informmention they have obtained from the paper. Have one student from each group report his findings to highlight the fact that many have differing editorial opinions.) (2) (2) (2) (2) (2) OPTIONAL- Have the findings listed on the chalkboard. As a student indicates where he located specific information, have him go to the board and list the section in which he found it.	on skills appropriate to self-identity.
	RESOURCE RESOURCE A few copies of the following: (enough to cover each group) 1. Journal News 2. Bergen Record 3. New York Times 4. New York Daily News See: Teacher Resources 2	

GRADE/SUBJECT

NAME OF UNIT MAJOR AIM 次 5,0,0,7 plant, and the skills editor. available at a newspaper The student will be able needed to identify those jobs editor 2) Sports reporter and News reporter and EVALUATION PROCEDURE: Editorial writer Classified ad writing Advertising Editor Circulation manager Proofreading Photographers, Press men Type setters Librarian etc. **1**to work in that **OBJECTIVE** ;; Headlines and Deadlines To gain a knowledge of the total spectrum of careers on a newspaper. <u>؛</u>دِ Sales * * ;;-Have the students look for three specific skills they will observe and list during the any two or field trip. produce a newsskills needed to paper. There are many ;;-;; CONCEPT the skills they listed. * Upon returning to school have the students write a paragraph describing ; ;; point.) a diversified approach to the newspaper business. the printing plant and discuss with your town guide cussion with the students on the skills necessary for newspaper production. (*Do not concentrate on gathering of news at this (1) A field trip to a newspaper. Arrange a visit to representative to visit your class. (2) Contact a local newspaper. ÷ * * ;-SUGGESTED' ACTIVITY * * **;**; × Have the paper send * Have a dis-* * * >;-Film: Big City Paper Trip to: * 3. Any New York City 1. Journal News Berger Record Newspaper etc. RESOURCE * 208

STRATEGY NUMBER IV (Optional)

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GRADE/SUBJECT_

NAME OF UNIT Headlines and Deadlines MAJOR AIM * able to describe the functions and The student will be particular job on a sary to perform a requirements neces-EVALUATION PROCEDURE: * OBJECTIVE ::-To foster career awareness within the context of creating a newspaper * ::-35 Students will be evaluated by the teacher on their ability to find and present information effectively. a newspaper. production of the group in the unique contribution to make to the group has a Each person in CONCEPT * * * newspaper career of his choice, (using information from Strategy III.) Newspaper." to the classroom display begun in Strategy II, to illustrate "The Person Behind This Section of the interview, tape recording. etc.) present its findings to the class in an unusual Each student or group of students will select a manner. (e.g. skit, slide show, puppet show, resources as possible. in Strategy III under objective) using as many The group will research careers (such as listed Students may add photos, sketches, captions, etc., * SUGGESTED · ACTIVITY * The group, in turn, will * * ;; :: * ٠, Media Center phy for student:) Art Teacher Librarian Library, Books (see bibliogra-RESOURCE * * 209

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NAME OF UNIT MAJOR AIM_ * Who? What? Where? When? How? Why? ering: able to identify a The students will be EVALUATION PROCEDURE: The teacher will evaluate students ability to effectively use the five "news" story consid-* OBJECTIVE :: Headlines and Deadlines An understanding of the elements of journalism "W's" and "H" A newspaper story has certain disacteristics tinctive char-* * CONCEPT * * * *(1) Each student brings in a copy of the Journal News Everyone selects the same story. The News. class circles and labels each of the "W's" and "H". other. choosing, do the same, and trade stories with each stood by the students individually. who, what, where, when, how and why, are underreinforcement lesson to see if the concepts of *Prior to the activity, the teacher should employ a (2) Let the students select another story of their own * × Everyone * selects the same story. (who, what, where, when, how, why.) * GIVADE/SUBJECT ;;-SUEGESTED ACTIVITY. * × ;; 4 - 6 * × * :: * A copy of Journal News for each student Filmstrips: How to Read a Newspaper RESOURCE The Newspaper ;;-* * * 210

NAME OF UNIT MAJOR AIM j. EVALUATION PROCEDURE: Where? How? ering Who? What? When? "news" story considable to write a The student will be * OBJECTIVE :: ; Headlines and Deadlines An understanding of the elements of Journalism. ۲. Students will rewrite stories based upon the critiques given by their classmates A newspaper story characteristics. distinctive has certain ; CONCEPT * * STRATEGY NUMBER * several reports: (1) Role Playing: Editor-in-chief comes into the room and shouts the following instructions to * on the story they were assigned to cover. Have the large group evaluate the "news" stories or Editor-in chief will assign the story they are (2) Now have each group provide the "W's" and "H": to cover to the groups. (3) Now have each student write his own article. and choose which will go into a "classpaper." group--you four cover it!" cover it!" Route 59, you four cover it!" * (c) "Two freight trains have collided near (b) "Hank Aaron is speaking to a little league (a)"Fire on the other side of town, you four * GRADE/SUBJECT * SUGGESTED · ACTIVITY. * ŗ, * 4 - 6 * etc. * * (Teacher ; * ; Filmstrip: RESOURCE (1) News writing ;; * * 211

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NAME OF UNIT MAJOR AIM 1 EVALUATION PROCEDURE: complete a self-awarestudent should class newspaper. The could best particiand interests to amine his own skills ness inventory. pate in creating a determine how he The student will ex-OBJECTIVE * ķ Headlines and Deadlines Student self-awareness. ņ. * Each student should complete and submit a self-awareness inventory to the teacher. ability and/or A person should based upon his assume a "job feel free to interest. * * CONCEPT * * ;; groups for production of a class paper. Compose a self-awareness inventory such as: Based upon students interests and abilities, form * * (a) Things I can do well:(b) Things I'd like to do well:(c) Things my friends think I can do well:(d) etc. 14 GRADE/SUBJECT (Have students use survey method.) * SUGGESTED · ACTIVITY * * ;-* * * * * Values Clarification RESOURCE * (Simon) >;-::-* 212

NAME OF UNIT MAJOR AIM_ Headlines and Deadlines

To foster career awareness within the context of creating a newspaper.

EVALUATION PROCEDURE:		job on a newspaper.	perform a particular	ments necessary to	functions and require-	able to describe the	The students will be	OBJECTIVE	** * * * * * * *
The teacher's judgeme	•	interests.	abilities and/or	based on his	assume a "job"	feel free to	A person should	CONCEPT	* * * * * * *
judgement will decide how and to whom the class newspaper wil	 Have a comic Edit articles Have a group of students use mimeo to print the paper. etc. 	1. Have a puzzle	All the following may be done simultaneously:	to help create the newspaper.	students, assign students to diversified tasks	Inventory" and the news articles written by the	Role playing: After the teacher evaluates "The Self-Awareness	SUGGESTED ACTIVITY	* * * * * * * * * * * * * *
ll be	Media Center 213	:	students.	bibliography for	Books - See		Art Teacher	RESOURCE	* * * * *

STRATEGY NUMBER

NAME OF UNIT Headlines and Deadlines GK::DE/SUBJECT

MAJOR AIM To foster career awareness within the context of creating a newspaper. * ÷ ;-

	a story.		OBJECTIVE	* * * * * * *	
•		must meet certain criteria.	CONCEPT STORY	* * * * *	
Different students will work on continues for activities——remember to assign DEADLINES for at least the first three steps. On step 4 the class can work together in putting the newspaper together. That particular DEADLINE may remain more flexible.	b) Write the articles c) Edit the articles d) Print or type up the articles on mimeo.	steps: a) Obtain your information	Production of a class paper will take four major	_	
				RESOURCE	,

Examples of activities: (All of the suggested examples require the teacher to point out counterparts in "real"

Assign reporting tasks to different students, providing a variety of methods to obtain the required information. These may then be used as guides.)

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*See below Have a student tape an interview with a prominent member of the community. Have a student tape an interview with a prominent member of the community. (e.g. the Mayor, a council person; a member of the school board, school administration, or faculty; the owner of a local sweet shop; a familiar

policieman, etc.) important: Why did this individual choose this particular career?

After the tape is returned have the student transcribe the interview and write the article using his discretion on what information should be included and what should be omitted.

- EGB Assign one or more students to cover a student council meeting. Assign one or more students to cover a sporting event at the school.
- Have a student review a school assembly, or TV show, or movie.
- (Activities should be done simultaneously.)

EVALUATION PROCEDURE: *On all interviews have the student outline the interview first. knows what questions to ask. Included should be questions of interest to the class. Be sure the student

NAME OF UNIT_

MAJOR AIM To foster career awareness within the context of creating a newspaper.

The student will be able to recognize that there are sections of the newspaper that entertain as well as give information.	OBJECTIVE	***
A newspaper not only informs; it also entertains	CONCEPT	* * * * *
Examine the papers again. This time look at special interest pages. (comics, puzzles, fashion, gossip, advice.) Have interested students adapt these pages to school related events. Examples: (1) Comics: Those students with artistic talent will need little supervision to complete this task. (2) A crossword puzzle including: (a) teacher's names, (b) student's names, (c) subjects, (d) TV programs, (e) atimicis (f) street names (g) material covered in class, (h) vocabulary words!	SUGGESTED ACTIVITY	* * * * * * * * * * * * * * * * *
	RESOURCE	* * *

(3) Fashion: A discussion on styles popular in school. How are they different from last year? Dress outside of school. How does it effect you?

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- (4) Music: The popular songs in the class may be listed or discussed.
- (5) Gossip: A column dedicated to the in's and out's of being a student.

Joe Blow has a new job at

The basketball team is expected to "Grape vine" has it that traffic lights will be installed in the halls. The first floor men's room was recently dedicated as the _Club House.

* A humorous slant on gossip makes it easier to interest the student.

(6) Photograph (or any hobby) Corner: may be produced. If photographs can be reproduced inexpensively a photo editorial

A student may discuss hobby possibilities

(all are simultaneous activities)

EVALUATION PROCEDURE:

To foster career awareness within the context of creating a newspaper.

				to produce their own . finished product of a newspaper.	e g. 1	STATE SALLOST GO
			•		There are many skill jobs on a newspaper.	concept *
to distributed.	*Students should be involved in the production, typing (if possible), rexographing (if possible), and distribution of the newspaper.	(4) Once this has been established, and the paper has been placed in suitable format, it should be typed on a mimeograph stencil, or rexograph master. Enough copies should be run off for the entire school.	(3) The layout of the paper has to be determined by the layout staff. (e.g. newslocal, national or international) entertainment, sports, fashion, fun page, advertisements, etc.	(2) Then, the editors will proofread the articles to determine which ones will actually be included in the newspaper. (Some, or all articles may be gcod.)	(1) The teacher or editor-in chief, will collect all the articles, pictures, stories, etc. that have been submitted for the class newspaper.	4
			216			RESOURCE .

Headlines and Deadlines

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RESOURCE

New York Daily News

New York Times

Bergen Record

Journal News

HAME OF UNIT MAJOR AIM * The student will be the differing opinons able to recognize found in major papers. EVALUATION PROCEDURE: 24 08 JECTIVE * ;; An understanding of the elements of journalism ;;• ;; * or Conservative opinions on many a variety of newspapers offer A variety of diversified subjects. (Liberal and write a paragraph defending one editorial opinion over another. Have students read editorial on the same topic, but from different papers, * ;; CONCEPT **冷** 冷 × * their format may be started off with the following An introduction comparing different newspapers and lead questions: ņ. E (2) What effects do the headlines have?(3) Do mottos tell us anything? (e.g. " (1) Where does each paper place the article Do mottos tell us anything? (e.g. 'All the news that's fit to print." 'New York's * of most importance? Do the ads, and the way they are laid out, pictre newspaper.") tell us anything about that particular readership? SUGGESTED ACTIVITY. ;-* :: ų, × * * *

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NAME OF UNIT Headlines and Deadlines

GRADE/SUBJECT

MAJOR AIM of a newspaper. their working knowledge which will evaluate complete a questionnaire able to design and EVALUATION PROCEDURE: The students will be * OBJECTIVE :: To foster career awareness within the context of creating a newspaper. :: * ;;within the newspaper industry. career families There are many Completion of the student-made questionnaire * * CONCEPT * ;; * * which will evaluate the entire project in terms of Sample Questions: career awareness. <u>a</u> <u>C</u> Have students design and complete a questionnaire (b) Did you learn anything about the qualifica-(a) Was the job you had easier than you had ķ Can you explain how all the jobs in the newspaper are INTERDEPENDENT? What other occupations on a newspaper might anticipated? the jut? you be interested in now that you have tions and requirements necessary to complete learned about many different jobs? * ;;-SUGGESTED ACTIVITY ;; More difficult? * * :-* * * ķ :: RESOURCE * * ; 218 'n